

# A review of experimental approaches to fracture toughness

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Phase Evolution and Microstructure Analysis of CoCrFeNiMo High-Entropy Alloy for Electro-Spark-Deposited Coatings for Geothermal Environment. <i>Coatings</i> , 2019, 9, 406.	1.2	24
2	Effect of Strengthening Methods on the Defect Evolution under Irradiations Investigated with Rate Theory Simulations. <i>Metals</i> , 2019, 9, 735.	1.0	5
3	Compositionally Graded Hydrophobic UV-Cured Coatings for the Prevention of Glass Stress Corrosion. <i>Coatings</i> , 2019, 9, 424.	1.2	4
4	Strain energy density approach for brittle fracture from nano to macroscale and breakdown of continuum theory. <i>Theoretical and Applied Fracture Mechanics</i> , 2019, 103, 102300.	2.1	17
5	Evaluation of Fracture Toughness Measurements Using Chevron-Notched Silicon and Tungsten Microcantilevers. <i>Jom</i> , 2019, 71, 3378-3389.	0.9	13
6	Effects of Second Phases on Microstructure, Microhardness, and Corrosion Behavior of Mg-3Sn-(1Ca) Alloys. <i>Materials</i> , 2019, 12, 2515.	1.3	10
7	Investigation of Micro-Hardness, Wear Resistance, and Defects of 316L Stainless Steel and TiC Composite Coating Fabricated by Laser Engineered Net Shaping. <i>Coatings</i> , 2019, 9, 498.	1.2	5
8	Micro-mechanical properties of single high aspect ratio crystals. <i>CrystEngComm</i> , 2019, 21, 5738-5748.	1.3	1
9	Fracture behavior and deformation mechanisms in nanolaminated crystalline/amorphous micro-cantilevers. <i>Acta Materialia</i> , 2019, 180, 73-83.	3.8	34
10	Microstructural dependence of the fracture toughness of metallic thin films: A bulge test and atomistic simulation study on single-crystalline and polycrystalline silver films. <i>Journal of Materials Research</i> , 2019, 34, 3483-3494.	1.2	5
11	Strain rate dependence of work of fracture tests on bone and similar tissues: Reflections on testing methods and mineral content effects. <i>Bone</i> , 2019, 128, 115038.	1.4	7
12	Fracture energy based approach for cemented carbides grain debonding. <i>International Journal of Mechanical Sciences</i> , 2019, 161-162, 105038.	3.6	1
14	Au-Sn solders applied in transient liquid phase bonding: Microstructure and mechanical behavior. <i>Materialia</i> , 2019, 8, 100503.	1.3	7
15	A New Explanation for the Effect of Dynamic Strain Aging on Negative Strain Rate Sensitivity in Fe-30Mn-9Al-1C Steel. <i>Materials</i> , 2019, 12, 3426.	1.3	8
16	Investigation on Fatigue Threshold Testing Methods in a Near Lamellar TiAl Alloy. <i>Materials</i> , 2019, 12, 3487.	1.3	0
17	Fracture toughness determination of fused silica by cube corner indentation cracking and pillar splitting. <i>Materials and Design</i> , 2020, 186, 108311.	3.3	38
18	Improvement on the oxidation resistance and tribological properties of molybdenum disulfide film by doping nitrogen. <i>Materials and Design</i> , 2020, 186, 108300.	3.3	34
19	Evolution of the mechanical properties of Ti-based intermetallic thin films doped with different metals to be used as biomedical devices. <i>Applied Surface Science</i> , 2020, 505, 144617.	3.1	22

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20	A Materials Perspective on the Design of Damage-Resilient Bone Implants Through Additive/Advanced Manufacturing. <i>Jom</i> , 2020, 72, 1195-1210.	0.9	13
21	Influence of interfacial structure on the fracture behavior of friction stir spot welded dissimilar joints. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 772, 138743.	2.6	23
22	Quantitative multi-scale characterization of single basalt fibres: Insights into strength loss mechanisms after thermal conditioning. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 797, 139963.	2.6	12
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24	Phase transformation - induced strengthening of an additively manufactured multi- principal element CrMnFeCoNi alloy. <i>Materials and Design</i> , 2020, 195, 108999.	3.3	13
25	Application of nanoindentation technology in rocks: a review. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2020, 6, 1.	1.3	48
26	The Effects of Micro-Segregation on Isothermal Transformed Nano Bainitic Microstructure and Mechanical Properties in Laser Cladded Coatings. <i>Materials</i> , 2020, 13, 3017.	1.3	2
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29	Cu Precipitation Behaviors and Microscopic Mechanical Characteristics of a Novel Ultra-Low Carbon Steel. <i>Materials</i> , 2020, 13, 3571.	1.3	3
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33	Effect of the Adaptive Response on the Wear Behavior of PVD and CVD Coated Cutting Tools during Machining with Built Up Edge Formation. <i>Nanomaterials</i> , 2020, 10, 2489.	1.9	3
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35	Study of Natural and Artificial Aging on AlSi <sub>9</sub> Cu <sub>3</sub> Alloy at Different Ratios of Returnable Material in the Batch. <i>Materials</i> , 2020, 13, 4538.	1.3	3
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37	Mode II Interfacial Fracture Toughness of Multi-Walled Carbon Nanotubes Reinforced Nanocomposite Film on Aluminum Substrate. <i>Nanomaterials</i> , 2020, 10, 904.	1.9	4

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49	Alloy design and properties optimization of multi-component alloy based on solidification characteristics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 805, 140576.	2.6	15
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55	In situ fracture observations of distinct interface types within a fully lamellar intermetallic TiAl alloy. Journal of Materials Research, 2021, 36, 2465-2478.	1.2	13

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57	High temperature fracture toughness of single-layer CrAlN and CrAlSiN hard coatings. <i>Surface and Coatings Technology</i> , 2021, 409, 126909.	2.2	12
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75	Constitutive and fracture behavior of ultra-strong supercrystalline nanocomposites. <i>Applied Physics Reviews</i> , 2021, 8, 031414.	5.5	7
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91	A graph-based workflow for extracting grain-scale toughness from meso-scale experiments. <i>Materials and Design</i> , 2022, 213, 110272.	3.3	3

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94	Thermodynamic stability and creation of large half-metallic gap in BaZrO <sub>3</sub> via non-magnetic elements doping. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 164, 110616.	1.9	6
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99	Strategies for damage tolerance enhancement in metal/ceramic thin films: Lessons learned from Ti/TiN. <i>Acta Materialia</i> , 2022, 228, 117777.	3.8	22
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