

Hael Mughrabi

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

2,866
citations

430754

18
h-index

610775

24
g-index

27
all docs

27
docs citations

27
times ranked

1695
citing authors

#	ARTICLE	IF	CITATIONS
1	On the dislocation mechanisms of dynamic strain ageing in fatigued plain carbon steels. <i>International Journal of Materials Research</i> , 2022, 94, 471-477.	0.1	0
2	Heterostructured materials: superior properties from hetero-zone interaction. <i>Materials Research Letters</i> , 2021, 9, 1-31.	4.1	505
3	Revisiting "Steady-State" Monotonic and Cyclic Deformation: Emphasizing the Quasi-Stationary State of Deformation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 1441-1456.	1.1	13
4	The n -factor in the Taylor flow-stress law in monotonic, cyclic and quasi-stationary deformations: Dependence on slip mode, dislocation arrangement and density. <i>Current Opinion in Solid State and Materials Science</i> , 2016, 20, 411-420.	5.6	85
5	A tribute to Claude Bathias " Highlights of his pioneering work in Gigacycle Fatigue. <i>International Journal of Fatigue</i> , 2016, 93, 217-223.	2.8	8
6	Microstructural mechanisms of cyclic deformation, fatigue crack initiation and early crack growth. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140132.	1.6	98
7	The importance of sign and magnitude of ϵ/ϵ^2 lattice misfit in superalloys" with special reference to the new ϵ^2 -hardened cobalt-base superalloys. <i>Acta Materialia</i> , 2014, 81, 21-29.	3.8	165
8	Microstructural fatigue mechanisms: Cyclic slip irreversibility, crack initiation, non-linear elastic damage analysis. <i>International Journal of Fatigue</i> , 2013, 57, 2-8.	2.8	74
9	Cyclic slip irreversibility and fatigue life: A microstructure-based analysis. <i>Acta Materialia</i> , 2013, 61, 1197-1203.	3.8	90
10	Damage Mechanisms and Fatigue Lives: From the Low to the Very High Cycle Regime. <i>Procedia Engineering</i> , 2013, 55, 636-644.	1.2	22
11	Cyclic strain rate effects in fatigued face-centred and body-centred cubic metals. <i>Philosophical Magazine</i> , 2013, 93, 3821-3834.	0.7	5
12	Fatigue, an everlasting materials problem - still en vogue. <i>Procedia Engineering</i> , 2010, 2, 3-26.	1.2	95
13	Fatigue damage in copper polycrystals subjected to ultrahigh-cycle fatigue below the PSB threshold. <i>International Journal of Fatigue</i> , 2010, 32, 872-878.	2.8	74
14	Cyclic deformation and fatigue properties of very fine-grained metals and alloys. <i>International Journal of Fatigue</i> , 2010, 32, 1413-1427.	2.8	269
15	Cyclic Slip Irreversibilities and the Evolution of Fatigue Damage. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 1257-1279.	1.1	187
16	Cyclic Slip Irreversibilities and the Evolution of Fatigue Damage. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2009, 40, 431-453.	1.0	157
17	Specific features and mechanisms of fatigue in the ultrahigh-cycle regime. <i>International Journal of Fatigue</i> , 2006, 28, 1501-1508.	2.8	243
18	Implications of non-negligible microstructural variations during steady-state deformation. <i>International Journal of Materials Research</i> , 2005, 96, 546-551.	0.8	6

#	ARTICLE	IF	CITATIONS
19	Misorientations and geometrically necessary dislocations in deformed copper crystals: A microstructural analysis of X-ray rocking curves. International Journal of Materials Research, 2005, 96, 688-697.	0.8	9
20	Cyclic Strain Localization in Fatigued Metals. , 2001, , 271-281.		2
21	Cyclic Deformation and Fatigue Properties of Ultrafine Grain Size Materials: Current Status and Some Criteria for Improvement of the Fatigue Resistance. Materials Research Society Symposia Proceedings, 2000, 634, 211.	0.1	57
22	Fatigue, Cyclic Deformation and Microstructure. Cyclic Deformation and Fatigue of Selected Ferritic and Austenitic Steels: Specific Aspects.. ISIJ International, 1997, 37, 1154-1169.	0.6	104
23	High-temperature measurements of lattice parameters and internal stresses of a creep-deformed monocrystalline nickel-base superalloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1996, 27, 1003-1014.	1.1	86
24	Low energy dislocation structures produced by cyclic deformation. Materials Science and Engineering, 1986, 81, 433-450.	0.1	348
25	Secondary cyclic hardening in fatigued copper monocrystals and polycrystals. Materials Science and Engineering, 1984, 63, 147-163.	0.1	137