

Khaled M Youssef

List of Publications by Year in descending order

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66
papers

3,436
citations

279798

23
h-index

138484

58
g-index

68
all docs

68
docs citations

68
times ranked

2962
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Low-Density, High-Hardness, High-entropy Alloy with Close-packed Single-phase Nanocrystalline Structures. <i>Materials Research Letters</i> , 2015, 3, 95-99.	8.7	468
2	Tensile properties of in situ consolidated nanocrystalline Cu. <i>Acta Materialia</i> , 2005, 53, 1521-1533.	7.9	445
3	Ultrahigh strength and high ductility of bulk nanocrystalline copper. <i>Applied Physics Letters</i> , 2005, 87, 091904.	3.3	326
4	Nanocrystalline Al-Mg alloy with ultrahigh strength and good ductility. <i>Scripta Materialia</i> , 2006, 54, 251-256.	5.2	285
5	Improved corrosion behavior of nanocrystalline zinc produced by pulse-current electrodeposition. <i>Corrosion Science</i> , 2004, 46, 51-64.	6.6	239
6	Ultratough nanocrystalline copper with a narrow grain size distribution. <i>Applied Physics Letters</i> , 2004, 85, 929-931.	3.3	167
7	Breakthroughs in Optimization of Mechanical Properties of Nanostructured Metals and Alloys. <i>Advanced Engineering Materials</i> , 2005, 7, 787-794.	3.5	140
8	Pulse current electrodeposition of nanocrystalline zinc. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 341, 174-181.	5.6	132
9	Effect of stacking fault energy on mechanical behavior of bulk nanocrystalline Cu and Cu alloys. <i>Acta Materialia</i> , 2011, 59, 5758-5764.	7.9	121
10	Deformation twinning in a nanocrystalline hcp Mg alloy. <i>Scripta Materialia</i> , 2011, 64, 213-216.	5.2	116
11	Mechanical behavior of nanocrystalline copper. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 463, 14-21.	5.6	103
12	Influence of Additives and Pulse Electrodeposition Parameters on Production of Nanocrystalline Zinc from Zinc Chloride Electrolytes. <i>Journal of the Electrochemical Society</i> , 2004, 151, C103.	2.9	95
13	Effect of stacking fault energy on deformation behavior of cryo-rolled copper and copper alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 529, 230-236.	5.6	88
14	Technological characteristics and selected bioactive compounds of <i>Opuntia dillenii</i> cactus fruit juice following the impact of pulsed electric field pre-treatment. <i>Food Chemistry</i> , 2016, 210, 249-261.	8.2	57
15	Influence of pulse plating parameters on the synthesis and preferred orientation of nanocrystalline zinc from zinc sulfate electrolytes. <i>Electrochimica Acta</i> , 2008, 54, 677-683.	5.2	53
16	Deformation twins and related softening behavior in nanocrystalline Cu-30% Zn alloy. <i>Acta Materialia</i> , 2012, 60, 3340-3349.	7.9	53
17	Graphene-Reinforced Bulk Metal Matrix Composites: Synthesis, Microstructure, and Properties. <i>Reviews on Advanced Materials Science</i> , 2020, 59, 67-114.	3.3	52
18	Nanostructured materials by mechanical alloying: new results on property enhancement. <i>Journal of Materials Science</i> , 2010, 45, 4725-4732.	3.7	36

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19	Flavonol profile of cactus fruits (<i>Opuntia ficus-indica</i>) enriched cereal-based extrudates: Authenticity and impact of extrusion. <i>Food Research International</i> , 2015, 78, 442-447.	6.2	34
20	Studying Parkinsonâ€™s disease using <i>Caenorhabditis elegans</i> models in microfluidic devices. <i>Integrative Biology (United Kingdom)</i> , 2019, 11, 186-207.	1.3	31
21	High strength, ductility, and electrical conductivity of in-situ consolidated nanocrystalline Cu-1%Nb. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 711, 350-355.	5.6	29
22	Nano-indentation: A tool to investigate crack propagation related phase transitions in PV silicon. <i>Solar Energy Materials and Solar Cells</i> , 2012, 96, 166-172.	6.2	26
23	Enhancement of Thermoelectric Properties of Layered Chalcogenide Materials. <i>Reviews on Advanced Materials Science</i> , 2020, 59, 371-378.	3.3	26
24	Consolidation of a Cuâ€™2.5vol.% Al ₂ O ₃ powder using high energy mechanical milling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 410-411, 375-380.	5.6	24
25	Structural evolution of Cu(1â€™X)YX alloys prepared by mechanical alloying: Their thermal stability and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2015, 627, 108-116.	5.5	22
26	The activation of deformation mechanisms for improved tensile properties in nanocrystalline aluminum. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 777, 139069.	5.6	22
27	High hardness in a nanocrystalline Mg ₉₇ Y ₂ Zn ₁ alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 7494-7499.	5.6	18
28	Studies on thermal stability, mechanical and electrical properties of nano crystalline Cu _{99.5} Zr _{0.5} alloy. <i>Journal of Alloys and Compounds</i> , 2013, 558, 44-49.	5.5	18
29	Rational synthesis of ternary PtIrNi nanocrystals with enhanced poisoning tolerance for electrochemical ethanol oxidation. <i>Electrochemistry Communications</i> , 2019, 101, 61-67.	4.7	17
30	Phenotypic chemical and mutant screening of zebrafish larvae using an on-demand response to electric stimulation. <i>Integrative Biology (United Kingdom)</i> , 2019, 11, 373-383.	1.3	16
31	The effects of structural integrity of graphene on the thermoelectric properties of the n-type bismuth-telluride alloy. <i>Journal of Alloys and Compounds</i> , 2021, 876, 160198.	5.5	15
32	Enrichment of rice-based extrudates with Cactus <i>Opuntia dillenii</i> seed powder: a novel source of fiber and antioxidants. <i>Journal of Food Science and Technology</i> , 2018, 55, 523-531.	2.8	14
33	Mechanical behavior of bulk nanocrystalline copper alloys produced by high energy ball milling. <i>Journal of Materials Science</i> , 2011, 46, 6316-6322.	3.7	12
34	Mechanical Properties of Nanocrystalline Materials Produced by <i>In Situ</i> Consolidation Ball Milling. <i>Materials Science Forum</i> , 2008, 579, 15-28.	0.3	10
35	Microfluidic electric parallel egg-laying assay and application to in-vivo toxicity screening of microplastics using <i>C. elegans</i> . <i>Science of the Total Environment</i> , 2021, 783, 147055.	8.0	10
36	Experimental and modeling analysis of p-type Bi _{0.4} Sb _{1.6} Te ₃ and graphene nanocomposites. <i>Journal of Materials Research and Technology</i> , 2022, 16, 1702-1712.	5.8	9

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37	Effect of oxygen and associated residual stresses on the mechanical properties of high growth rate Czochralski silicon. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	8
38	Parallel-Channel Electrotaxis and Neuron Screening of <i>Caenorhabditis elegans</i> . <i>Micromachines</i> , 2020, 11, 756.	2.9	8
39	Silicon PV Wafers: Mechanical Strength and Correlations with Defects and Stress. <i>Solid State Phenomena</i> , 2011, 178-179, 79-87.	0.3	7
40	Oxygen Precipitation Related Stress-Modified Crack Propagation in High Growth Rate Czochralski Silicon Wafers. <i>Journal of the Electrochemical Society</i> , 2011, 159, H125-H129.	2.9	7
41	Semi-mobile <i>C. elegans</i> electrotaxis assay for movement screening and neural monitoring of Parkinson's disease models. <i>Sensors and Actuators B: Chemical</i> , 2020, 316, 128064.	7.8	6
42	Microfluidic devices for behavioral screening of multiple Zebrafish Larvae: Design investigation process. <i>Biotechnology Journal</i> , 2021, , 2100076.	3.5	6
43	Bulk Nanostructured Cu-2.5vol.%Al ₂ O ₃ Alloy Synthesized Using High Energy Mechanical Milling. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2005, 24-25, 639-642.	0.1	5
44	Nanostructure fabrication on germanium and silicon by nanocoining imprint technique. <i>Precision Engineering</i> , 2013, 37, 871-879.	3.4	5
45	Miniaturized Sensors and Actuators for Biological Studies on Small Model Organisms of Disease. <i>Energy, Environment, and Sustainability</i> , 2018, , 199-225.	1.0	5
46	In-situ growth of single-crystal plasmonic aluminum-lithium-graphene nanosheets with a hexagonal platelet-like morphology using ball-milling. <i>Carbon</i> , 2021, 178, 657-665.	10.3	5
47	Electric egg-laying: a new approach for regulating <i>C. elegans</i> egg-laying behaviour in a microchannel using electric field. <i>Lab on A Chip</i> , 2021, 21, 821-834.	6.0	5
48	Investigating the thermal stability of nanocrystalline aluminum-lithium alloy by combining different mechanisms: Reinforcing with graphene and alloying with Sr. <i>Journal of Alloys and Compounds</i> , 2022, 914, 165348.	5.5	5
49	Proximity gettering of Cu at a (110)/(001) grain boundary interface formed by direct silicon bonding. <i>Applied Physics Letters</i> , 2009, 94, 221909.	3.3	4
50	Understanding creep in nanocrystalline materials. <i>Transactions of the Indian Institute of Metals</i> , 2010, 63, 373-378.	1.5	4
51	Impact of Prolonged Exposure to Sour Service on the Mechanical Properties and Corrosion Mechanism of NACE Carbon Steel Material Used in Wet Sour Gas Multiphase Pipeline. <i>Sustainability</i> , 2022, 14, 8015.	3.2	4
52	Thermal Conductivity of Exfoliated p-Type Bismuth Antimony Telluride. <i>Journal of Electronic Materials</i> , 2014, 43, 320-328.	2.2	3
53	Artifact-free bulk nanocrystalline Al-Li alloys with multiple deformation mechanisms and improved tensile properties. <i>Materials Today Communications</i> , 2020, 25, 101607.	1.9	3
54	Crack Propagation in Large Diameter PV Silicon. <i>ECS Transactions</i> , 2010, 33, 25-32.	0.5	2

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55	Understanding the effect of impurities and grain boundaries on mechanical behavior of Si via nanoindentation of (110)/(100) direct Si bonded wafers. Journal of Materials Research, 2012, 27, 349-355.	2.6	2
56	Recombination via nano-precipitates … a new mechanism for efficiency loss in solar silicon?. , 2014, , .		2
57	Influence of 1%Nb Solute Addition on the Thermal Stability of In Situ Consolidated Nanocrystalline Cu. Advanced Engineering Materials, 2019, 21, 1800859.	3.5	2
58	High-speed label-free confocal microscopy of Caenorhabditis elegans with near infrared spectrally encoded confocal microscopy. Biomedical Optics Express, 2021, 12, 3607.	2.9	2
59	Low-cost optofluidic add-on enables rapid selective plane illumination microscopy of C. elegans with a conventional wide-field microscope. Journal of Biomedical Optics, 2021, 26, .	2.6	2
60	Amorphization during Fracture of Thin Photovoltaic Silicon Wafers. ECS Transactions, 2010, 25, 49-55.	0.5	1
61	Bulk Nanostructured Metals and Alloys: Processing, Structure, and Thermal Stability. Journal of Nanomaterials, 2012, 2012, 1-2.	2.7	1
62	Fracture Strength of Photovoltaic Silicon Wafers Evaluated Using a Controlled Flaw Method. Advanced Engineering Materials, 2013, 15, 756-760.	3.5	1
63	Tunable metal contacts at layered black-arsenic/metal interface forming during metal deposition for device fabrication. Communications Materials, 2022, 3, .	6.9	1
64	Evaluating Amorphization Around Micro-Cracks in PV Silicon. Materials Research Society Symposia Proceedings, 2009, 1210, 1.	0.1	0
65	In-Situ Electrical Measurements of Thin Photovoltaic Silicon Wafers during Nanoindentation. ECS Transactions, 2010, 25, 41-48.	0.5	0
66	The Effect of the Milling Vial Shape on the In-Situ Consolidation of a Nanocrystalline Al-Li-GNPs Nanocomposite Synthesized by Room Temperature Ball-Milling. Frontiers in Materials, 2022, 9, .	2.4	0