Konstantinos Georgarakis

List of Publications by Year
in descending order

59	1,111	361045	433756
papers	citations	20 h-index	31 g-index

60	60	60	1001
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Progress in aluminium and magnesium matrix composites obtained by spark plasma, microwave and induction sintering. International Materials Reviews, 2023, 68, 225-246.	9.4	14
2	Coreâ€“Shell Particle Reinforcementsâ€”A New Trend in the Design and Development of Metal Matrix Composites. Materials, 2022, 15, 2629.	1.3	8
3	The effect of Ni or Co additions on the structure of Zr60Cu30Al10 bulk metallic glass revealed by high-energy synchrotron radiation. Materials Today Communications, 2022, , 103531.	0.9	1
4	The Benefit of the Glassy State of Reinforcing Particles for the Densification of Aluminum Matrix Composites. Journal of Composites Science, 2022, 6, 135.	1.4	10
5	Interaction between Fe66Cr10Nb5B19 metallic glass and aluminum during spark plasma sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 799, 140165.	2.6	21
6	Investigation on the mechanically-induced nanocrystallization in metallic glasses. Journal of Alloys and Compounds, 2021, 859, 157864.	2.8	2
7	Oxide Ceramic Matrix Composite Materials for Aero-Engine Applications: A Literature Review. Advances in Transdisciplinary Engineering, 2021, , .	0.1	0
8	Microstructure and Mechanical Properties of Composites Obtained by Spark Plasma Sintering of Alâ€“Fe66Cr10Nb5B19 Metallic Glass Powder Mixtures. Metals, 2021, 11, 1457.	1.0	8
9	Devitrification of thin film Cuâ€“Zr metallic glass via ultrashort pulsed laser annealing. Journal of Alloys and Compounds, 2021, 887, 161437.	2.8	7
10	An atomistic study of the structural changes in a Zrâ€“Cuâ€“Niâ€“Al glass-forming liquid on vitrification monitored in-situ by X-ray diffraction and molecular dynamics simulation. Intermetallics, 2020, 122, 106795.	1.8	8
11	In-situ TEM study of the crystallization sequence in a gold-based metallic glass. Acta Materialia, 2020, 196, 52-60.	3.8	19
12	A novel operando approach to analyze the structural evolution of metallic materials during friction with application of synchrotron radiation. Acta Materialia, 2020, 196, 355-369.	3.8	10
13	On the impact of global interactions on the structure of metallic glasses. Journal of Alloys and Compounds, 2019, 782, 496-505.	2.8	4
14	Formation of TiC-Cu nanocomposites by a reaction between Ti25Cu75 melt-spun alloy and carbon. Materials Letters, 2019, 235, 104-106.	1.3	14
15	Tensile properties of Zr70Ni16Cu6Al8 BMG at room and cryogenic temperatures. Journal of Alloys and Compounds, 2018, 742, 952-957.	2.8	7
16	Probing heat generation during tensile plastic deformation of a bulk metallic glass at cryogenic temperature. Scientific Reports, 2018, 8, 16317.	1.6	9
17	Design Optimisation of the Feeding System of a Novel Counter-Gravity Casting Process. Metals, 2018, 8, 817.	1.0	9
18	On a new electromechanical switch using the reversible wavy elastic response of metallic glass ribbons. Comptes Rendus - Mecanique, 2017, 345, 797-804.	2.1	1

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19	In-situ structural identification of Zr3Al2 type metastable phase during crystallization of a Zr-based MG. Journal of Non-Crystalline Solids, 2016, 452, 30-34.	1.5	5
20	Nanoporous silver for electrocatalysis application in alkaline fuel cells. Materials and Design, 2016, 111, 528-536.	3.3	27
21	Nanoporous titanium obtained from a spinodally decomposed Ti alloy. Microporous and Mesoporous Materials, 2016, 222, 23-26.	2.2	11
22	Probing the structure of a liquid metal during vitrification. Acta Materialia, 2015, 87, 174-186.	3.8	38
23	Structural changes in liquid Fe and Feâ€“B alloy on cooling. Journal of Molecular Liquids, 2015, 209, 233-238.	2.3	10
24	Fabrication of nanoporous copper surface by leaching of chill-zone Cuâ€“Zrâ€“Hf alloys. Scripta Materialia, 2015, 104, 64-66.	2.6	2
25	Ni- and Cu-free Ti-based metallic glasses with potential biomedical application. Intermetallics, 2015, 63, 86-96.	1.8	25
26	Crystallization of Fe83B17 amorphous alloy by electric pulses produced by a capacitor discharge. Applied Physics A: Materials Science and Processing, 2015, 120, 1565-1572.	1.1	4
27	Experimental and Theoretical Advances in Amorphous Alloys. Advances in Materials Science and Engineering, 2014, 2014, 1-2.	1.0	6
28	In situ X-ray diffraction study of the phase transformation in the non-stoichiometric intermetallic compound Ti3Sn. Journal of Alloys and Compounds, 2014, 582, 360-363.	2.8	12
29	Room temperature strain recovery into non-stoichiometric intermetallic compound Ti 3 Sn. Journal of Alloys and Compounds, 2014, 617, 34-38.	2.8	8
30	The role of Sn doping in the Î²-type Tiâ€“25at%Nb alloys: Experiment and ab initio calculations. Journal of Alloys and Compounds, 2014, 615, S676-S679.	2.8	23
31	Comparative analysis of the structure of palladium-based bulk metallic glasses prepared by treatment of melts with flux. Physics of the Solid State, 2013, 55, 1985-1990.	0.2	6
32	On the mechanical properties of TiNb based alloys. Journal of Alloys and Compounds, 2013, 571, 25-30.	2.8	59
33	Crystallization during Bending of a Pd-Based Metallic Glass Detected by X-Ray Microscopy. Physical Review Letters, 2012, 109, 085501.	2.9	31
34	Atomic structure changes and phase transformation behavior in Pdâ€“Si bulk glass-forming alloy. Intermetallics, 2012, 20, 135-140.	1.8	15
35	A synchrotron X-ray diffraction study of hydrogen storage and enhanced sorption kinetics in a mini-tank of Mg with crystalline and amorphous catalytic particle additions. Journal of Alloys and Compounds, 2012, 540, 57-61.	2.8	6
36	Investigation of viscosity and crystallization in supercooled-liquid region of Zr-based glassy alloys. Journal of Non-Crystalline Solids, 2012, 358, 150-154.	1.5	9

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37	Strong and light metal matrix composites with metallic glass particulate reinforcement. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 532, 325-330.	2.6	56
38	Kinetics of isothermal structural relaxation in metallic glasses measured by real-time diffraction using synchrotron radiation. Philosophical Magazine Letters, 2011, 91, 122-133.	0.5	5
39	Local atomic structure of Zrâ€“Cu and Zrâ€“Cuâ€“Al amorphous alloys investigated by EXAFS method. Journal of Alloys and Compounds, 2011, 509, S34-S37.	2.8	26
40	Crystallization of Ti33Cu67 metallic glass under high-current density electrical pulses. Nanoscale Research Letters, 2011, 6, 512.	3.1	4
41	Shaping of metallic glasses by stress-annealing without thermal embrittlement. Acta Materialia, 2011, 59, 3817-3824.	3.8	27
42	Variations in atomic structural features of a supercooled Pdâ€“Niâ€“Cuâ€“P glass forming liquid during in situ vitrification. Acta Materialia, 2011, 59, 708-716.	3.8	47
43	Ni- and Cu-free Zrâ€“Alâ€“Coâ€“Ag bulk metallic glasses with superior glass-forming ability. Journal of Materials Research, 2011, 26, 539-546.	1.2	69
44	Glass formation in the Nbâ€“Si binary system. Journal of Alloys and Compounds, 2010, 504, S14-S17.	2.8	4
45	Cu-based metallic glass particle additions to significantly improve overall compressive properties of an Al alloy. Composites Part A: Applied Science and Manufacturing, 2010, 41, 1551-1557.	3.8	70
46	Effect of Ag addition on local structure of Cuâ€“Zr glassy alloy. Journal of Materials Research, 2009, 24, 274-278.	1.2	20
47	A magnesium alloy matrix composite reinforced with metallic glass. Composites Science and Technology, 2009, 69, 2734-2736.	3.8	61
48	Real time synchrotron radiation studies on metallic glass (Zr0.55Al0.1Ni0.05Cu0.3)99Y1 after cold rolling. Intermetallics, 2009, 17, 231-234.	1.8	5
49	Atomic structure of Zrâ€“Cuâ€“Al and Zrâ€“Niâ€“Al amorphous alloys. Journal of Alloys and Compounds, 2009, 471, 70-73.	2.8	34
50	Influence of fluxing in the preparation of bulk Fe-based glassy alloys. Journal of Alloys and Compounds, 2009, 483, 243-246.	2.8	13
51	AlNiY chill-zone alloys with good mechanical properties. Journal of Alloys and Compounds, 2009, 477, 346-349.	2.8	17
52	Chill-zone aluminum alloys with GPa strength and good plasticity. Journal of Materials Research, 2009, 24, 1513-1521.	1.2	14
53	Atomic structure of Zrâ€“Cu glassy alloys and detection of deviations from ideal solution behavior with Al addition by x-ray diffraction using synchrotron light in transmission. Applied Physics Letters, 2009, 94, 191912.	1.5	55
54	Chill zone copper with the strength of stainless steel and tailorable color. Acta Materialia, 2008, 56, 1830-1839.	3.8	16

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55	Real-space structural studies of Cuâ€“Zrâ€“Ti glassy alloy. Journal of Alloys and Compounds, 2008, 466, 106-110.	2.8	23
56	The influence of grain size on the sliding wear behaviour of zinc. Materials Letters, 2006, 60, 133-136.	1.3	27
57	Sliding wear behaviour of zincâ€“cobalt alloy electrodeposits. Journal of Materials Processing Technology, 2005, 160, 234-244.	3.1	25
58	The effect of hydrogen charging on the mechanical behaviour of Î±-brass. Journal of Alloys and Compounds, 2005, 392, 159-164.	2.8	13
59	Sliding wear behaviour of Zincâ€“Nickel alloy electrodeposits. Tribology International, 2003, 36, 619-623.	3.0	31