Gabor L Katona

List of Publications by Year in descending order

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623734 794594 42 412 14 19 citations g-index h-index papers 43 43 43 238 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Thermally-induced phase transitions in Pt/Tb/Fe trilayers. Thin Solid Films, 2020, 709, 138134.	1.8	3
2	Grain Boundary Diffusion Dominated Mixing and Solid State Reactions in Magnetic Thin Films. NATO Science for Peace and Security Series B: Physics and Biophysics, 2020, , 145-162.	0.3	O
3	On the miscibility gap of Cu-Ni system. Acta Materialia, 2018, 148, 49-54.	7.9	22
4	Influence of silicon doping type on the adhesion of seedless electrodeposited copper layers. Surface and Coatings Technology, 2018, 349, 208-216.	4.8	3
5	Interdiffusion along grain boundaries – Diffusion induced grain boundary migration, low temperature homogenization and reactions in nanostructured thin films. Progress in Materials Science, 2018, 98, 625-674.	32.8	32
6	Determination of the compositions of the DIGM zone in nanocrystalline Ag/Au and Ag/Pd thin films by secondary neutral mass spectrometry. Beilstein Journal of Nanotechnology, 2016, 7, 474-483.	2.8	2
7	Low-temperature formation of the FePt phase in the presence of an intermediate Au layer in Pt /Au /Fe thin films. Journal Physics D: Applied Physics, 2016, 49, 035003.	2.8	16
8	Formation of Cu6Sn5 phase by cold homogenization in nanocrystalline Cu–Sn bilayers at room temperature. Microelectronics Reliability, 2016, 56, 85-92.	1.7	2
9	Nanoscale diffusion in Pt/56Fe/57Fe thin-film system. Thin Solid Films, 2015, 589, 173-181.	1.8	2
10	Low temperature homogenization in nanocrystalline PdCu thin film system. Materials Research Express, 2015, 2, 105012.	1.6	3
11	Nanoscale Kirkendall porosity formation during grain boundary intermixing in Au/Ag thin film system. Materials Letters, 2015, 145, 67-69.	2.6	5
12	Kinetics of shift of individual interfaces in Ni/Si system during low temperature reactions. Microelectronic Engineering, 2015, 134, 14-21.	2.4	3
13	Nanostructured SiGe thin Films Obtained Through MIC Processing. Materials Today: Proceedings, 2015, 2,557-565 properties of thermoelectric skutterudite <mml:math< td=""><td>1.8</td><td>3</td></mml:math<>	1.8	3
14	xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si11.gif" overflow="scroll"> <mml:mrow><mml:mrow><mml:miow><mml:miow></mml:miow></mml:miow><td>> <5n5ml:ms mml:mi>x</td><td>sub><mml:mr </mml:mr </td></mml:mrow></mml:mrow>	> < 5n5 ml:ms mml:mi>x	sub> <mml:mr </mml:mr
15	mathvariant="normal">Sb <mml:mr. 2015,="" 636<br="" alloys="" and="" compounds,="" journal="" of="">Diffusion and solid state reactions in Fe/Ag/Pt and FePt/Ag thin-film systems. Journal Physics D: Applied Physics, 2015, 48, 175001.</mml:mr.>	2.8	10
16	Investigation of solid-state reaction in Ag/Sn nanostructured thin films at room temperature. Philosophical Magazine, 2015, 95, 2990-3001.	1.6	5
17	Formation of Cu <i>_x</i> Au _{1â^'} <i>_x</i> phases by cold homogenization of Au/Cu nanocrystalline thin films. Beilstein Journal of Nanotechnology, 2014, 5, 1491-1500.	2.8	13
18	Influence of the substrate choice on the L10phase formation of post-annealed Pt/Fe and Pt/Ag/Fe thin films. Journal of Applied Physics, 2014, 116, 044310.	2.5	15

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19	Grain boundary diffusion induced reaction layer formation in Fe/Pt thin films. Applied Physics A: Materials Science and Processing, 2014, 115, 203-211.	2.3	24
20	Influence of intermediate Ag layer on the structure and magnetic properties of Pt/Ag/Fe thin films. Vacuum, 2014, 101, 33-37.	3.5	15
21	Production of NiSi phase by grain boundary diffusion induced solid state reaction between Ni 2 Si and Si(1 0 0) substrate. Applied Surface Science, 2014, 320, 627-633.	6.1	11
22	Trapping Effect on the Kinetic Critical Radius in Nucleation and Growth Processes. Materials Science Forum, 2014, 790-791, 97-102.	0.3	0
23	Structural and magnetic properties of annealed FePt/Ag/FePt thin films. Applied Surface Science, 2013, 266, 100-104.	6.1	31
24	Kinetic pathways of diffusion and solid-state reactions in nanostructured thin films. Philosophical Magazine, 2013, 93, 1960-1970.	1.6	23
25	Evolution of concentration profiles in Pd–Cu systems studied by SNMS technique. Vacuum, 2013, 98, 70-74.	3.5	12
26	Linear-parabolic shift of initially sharp interface in AB diffusion couple above the ordering temperature. Philosophical Magazine Letters, 2012, 92, 478-486.	1.2	1
27	Nanoscale investigations of shift of individual interfaces in temperature induced processes of Ni–Si system by secondary neutral mass spectrometry. Applied Physics Letters, 2010, 97, .	3.3	17
28	Non Parabolic Shift of Interfaces and Effect of Diffusion Asymmetry on Nanoscale Solid State Reactions. Journal of Nano Research, 2009, 7, 43-49.	0.8	4
29	Analysis of Co/Cu multilayers by SNMS reverse depth profiling. Vacuum, 2009, 84, 141-143.	3.5	5
30	Investigations of failure mechanisms at Ta and TaO diffusion barriers by secondary neutral mass spectrometry. Vacuum, 2009, 84, 130-133.	3.5	15
31	Linear growth kinetics of nanometric silicides in Co/amorphous-Si and Co/CoSi/amorphous-Si thin films. Journal of Applied Physics, 2008, 104, .	2.5	23
32	Depth profile analysis of electrodeposited nanoscale multilayers by SNMS. Vacuum, 2007, 82, 270-273.	3.5	14
33	Electrodeposition of Ni–Co–Cu/Cu multilayers. Electrochimica Acta, 2007, 53, 837-845.	5.2	30
34	Diffusion on the nanometer scale. Vacuum, 2005, 80, 87-91.	3.5	5
35	Non-Linear Effects in Diffusion on Nanoscale. Defect and Diffusion Forum, 2005, 237-240, 1031-1042.	0.4	0
36	Non-Parabolic Shift of Phase Boundaries on Nanoscale in Binary Systems with Restricted Solubility: Theory and Experiment. Defect and Diffusion Forum, 2005, 237-240, 1216-1221.	0.4	0

#	Article	IF	CITATIONS
37	'Surfactant-Like Dissolution' of a Thin Deposit for Composition Dependent Diffusion Coefficient. Defect and Diffusion Forum, 2005, 237-240, 537-542.	0.4	O
38	Experimental evidence for a nonparabolic nanoscale interface shift during the dissolution of Ni into bulk Au(111). Physical Review B, 2005, 71, .	3.2	35
39	Effects of Gradient Energy and Stress Terms in Diffusional Intermixing of Multilayers. Defect and Diffusion Forum, 2003, 216-217, 1-12.	0.4	2
40	Formation and Stability of Metastable Pd(Zr) Solid Solution Developed during Ball Milling and/or Heat Treatment of Pd ₃ Zr. Materials Science Forum, 2002, 386-388, 193-198.	0.3	0
41	Thin Film Dissolution into Semi-Infinite Substrates: Surprising Interface Kinetics and Dissolution Modes. Defect and Diffusion Forum, 0, 289-292, 573-585.	0.4	0
42	Anomalous Kinetics and Regimes of Growth of Intermetallic Phases during Solid State Reactions in Nanosystems., 0, 2, 107-139.		3