

Gabor L Katona

List of Publications by Year in descending order

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42
papers

412
citations

623734

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794594

19
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43
all docs

43
docs citations

43
times ranked

238
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental evidence for a nonparabolic nanoscale interface shift during the dissolution of Ni into bulk Au(111). <i>Physical Review B</i> , 2005, 71, .	3.2	35
2	Interdiffusion along grain boundaries – Diffusion induced grain boundary migration, low temperature homogenization and reactions in nanostructured thin films. <i>Progress in Materials Science</i> , 2018, 98, 625-674.	32.8	32
3	Structural and magnetic properties of annealed FePt/Ag/FePt thin films. <i>Applied Surface Science</i> , 2013, 266, 100-104.	6.1	31
4	Electrodeposition of Ni–Co–Cu/Cu multilayers. <i>Electrochimica Acta</i> , 2007, 53, 837-845.	5.2	30
5	Grain boundary diffusion induced reaction layer formation in Fe/Pt thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 115, 203-211.	2.3	24
6	Linear growth kinetics of nanometric silicides in Co/amorphous-Si and Co/CoSi/amorphous-Si thin films. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	23
7	Kinetic pathways of diffusion and solid-state reactions in nanostructured thin films. <i>Philosophical Magazine</i> , 2013, 93, 1960-1970.	1.6	23
8	On the miscibility gap of Cu-Ni system. <i>Acta Materialia</i> , 2018, 148, 49-54.	7.9	22
9	Nanoscale investigations of shift of individual interfaces in temperature induced processes of Ni–Si system by secondary neutral mass spectrometry. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	17
10	Low-temperature formation of the FePt phase in the presence of an intermediate Au layer in Pt–Au–Fe thin films. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 035003.	2.8	16
11	Investigations of failure mechanisms at Ta and TaO diffusion barriers by secondary neutral mass spectrometry. <i>Vacuum</i> , 2009, 84, 130-133.	3.5	15
12	Influence of the substrate choice on the L10 phase formation of post-annealed Pt/Fe and Pt/Ag/Fe thin films. <i>Journal of Applied Physics</i> , 2014, 116, 044310.	2.5	15
13	Influence of intermediate Ag layer on the structure and magnetic properties of Pt/Ag/Fe thin films. <i>Vacuum</i> , 2014, 101, 33-37.	3.5	15
14	Depth profile analysis of electrodeposited nanoscale multilayers by SNMS. <i>Vacuum</i> , 2007, 82, 270-273.	3.5	14
15	Formation of Cu _x Au _{1-x} phases by cold homogenization of Au/Cu nanocrystalline thin films. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1491-1500.	2.8	13
16	Evolution of concentration profiles in Pd–Cu systems studied by SNMS technique. <i>Vacuum</i> , 2013, 98, 70-74.	3.5	12
17	Production of NiSi phase by grain boundary diffusion induced solid state reaction between Ni ₂ Si and Si(1 0 0) substrate. <i>Applied Surface Science</i> , 2014, 320, 627-633.	6.1	11
18	Diffusion and solid state reactions in Fe/Ag/Pt and FePt/Ag thin-film systems. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 175001.	2.8	10

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19	Diffusion on the nanometer scale. Vacuum, 2005, 80, 87-91.	3.5	5
20	Analysis of Co/Cu multilayers by SNMS reverse depth profiling. Vacuum, 2009, 84, 141-143.	3.5	5
21	Nanoscale Kirkendall porosity formation during grain boundary intermixing in Au/Ag thin film system. Materials Letters, 2015, 145, 67-69.	2.6	5
22	Investigation of solid-state reaction in Ag/Sn nanostructured thin films at room temperature. Philosophical Magazine, 2015, 95, 2990-3001.	1.6	5
23	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
24	Anomalous Kinetics and Regimes of Growth of Intermetallic Phases during Solid State Reactions in Nanosystems. , 0, 2, 107-139.		3
25	Low temperature homogenization in nanocrystalline PdCu thin film system. Materials Research Express, 2015, 2, 105012.	1.6	3
26	Kinetics of shift of individual interfaces in Ni/Si system during low temperature reactions. Microelectronic Engineering, 2015, 134, 14-21.	2.4	3
27	Nanostructured SiGe thin Films Obtained Through MIC Processing. Materials Today: Proceedings, 2015, 2, 557-565.	1.8	3
28	Structural properties of thermoelectric skutterudite $\text{Fe}_{1-x}\text{Co}_x\text{Sb}$. Journal of Alloys and Compounds, 2015, 636, 636		3
29	Influence of silicon doping type on the adhesion of seedless electrodeposited copper layers. Surface and Coatings Technology, 2018, 349, 208-216.	4.8	3
30	Thermally-induced phase transitions in Pt/Tb/Fe trilayers. Thin Solid Films, 2020, 709, 138134.	1.8	3
31	Effects of Gradient Energy and Stress Terms in Diffusional Intermixing of Multilayers. Defect and Diffusion Forum, 2003, 216-217, 1-12.	0.4	2
32	Nanoscale diffusion in Pt/56Fe/57Fe thin-film system. Thin Solid Films, 2015, 589, 173-181.	1.8	2
33	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
34	Formation of Cu ₆ Sn ₅ phase by cold homogenization in nanocrystalline Cu-Sn bilayers at room temperature. Microelectronics Reliability, 2016, 56, 85-92.	1.7	2
35	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
36	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

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37	Non-Linear Effects in Diffusion on Nanoscale. Defect and Diffusion Forum, 2005, 237-240, 1031-1042.	0.4	0
38	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
39	'Surfactant-Like Dissolution' of a Thin Deposit for Composition Dependent Diffusion Coefficient. Defect and Diffusion Forum, 2005, 237-240, 537-542.	0.4	0
40	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
41	Trapping Effect on the Kinetic Critical Radius in Nucleation and Growth Processes. Materials Science Forum, 2014, 790-791, 97-102.	0.3	0
42	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	0