

# Katayun Barmak

## List of Publications by Citations

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242  
papers

5,805  
citations

43  
h-index

65  
g-index

254  
ext. papers

6,691  
ext. citations

5  
avg, IF

5.79  
L-index

#	Paper	IF	Citations
242	On the relationship of high coercivity and L10 ordered phase in CoPt and FePt thin films. <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 4527-4533	2.5	290
241	Simulation of Hubbard model physics in WSe/WS moiré superlattices. <i>Nature</i> , <b>2020</b> , 579, 353-358	50.4	195
240	On the relationship of magnetocrystalline anisotropy and stoichiometry in epitaxial L10 CoPt (001) and FePt (001) thin films. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 033904	2.5	174
239	Investigating the thermodynamics and kinetics of thin film reactions by differential scanning calorimetry. <i>Journal Physics D: Applied Physics</i> , <b>1997</b> , 30, 3167-3186	3	160
238	The relationship between deposition conditions, the beta to alpha phase transformation, and stress relaxation in tantalum thin films. <i>Journal of Applied Physics</i> , <b>1992</b> , 72, 4918-4924	2.5	150
237	Surface and grain-boundary scattering in nanometric Cu films. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	141
236	Advancements in the treatment and processing of electronic waste with sustainability: a review of metal extraction and recovery technologies. <i>Green Chemistry</i> , <b>2019</b> , 21, 919-936	10	133
235	Experimental evidence for nucleation during thin-film reactions. <i>Applied Physics Letters</i> , <b>1989</b> , 55, 852-854	3.4	112
234	Deterministic coupling of site-controlled quantum emitters in monolayer WSe to plasmonic nanocavities. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 1137-1142	28.7	105
233	Reactive phase formation in sputter-deposited Ni/Al multilayer thin films. <i>Journal of Materials Research</i> , <b>1997</b> , 12, 133-146	2.5	101
232	On the use of alloying elements for Cu interconnect applications. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2006</b> , 24, 2485		97
231	The early stages of solid-state reactions in Ni/Al multilayer films. <i>Journal of Applied Physics</i> , <b>1996</b> , 80, 6689-6698	2.5	93
230	Approaching the Intrinsic Limit in Transition Metal Diselenides via Point Defect Control. <i>Nano Letters</i> , <b>2019</b> , 19, 4371-4379	11.5	90
229	Dominant role of grain boundary scattering in the resistivity of nanometric Cu films. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	84
228	Calorimetric studies of the A1 to L10 transformation in FePt and CoPt thin films. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 4268-4270	3.4	84
227	Annealing behavior of Cu and dilute Cu-alloy films: Precipitation, grain growth, and resistivity. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 1605-1616	2.5	81
226	Scalable, "Dip-and-Dry" Fabrication of a Wide-Angle Plasmonic Selective Absorber for High-Efficiency Solar-Thermal Energy Conversion. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702156	24	71

225	Grain growth and the puzzle of its stagnation in thin films: The curious tale of a tail and an ear. <i>Progress in Materials Science</i> , <b>2013</b> , 58, 987-1055	42.2	71
224	Phase, grain structure, stress, and resistivity of sputter-deposited tungsten films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2011</b> , 29, 051512	2.9	66
223	Inspired by nature: investigating tetrataenite for permanent magnet applications. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 064213	1.8	64
222	Electron mean free path of tungsten and the electrical resistivity of epitaxial (110) tungsten films. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	63
221	Formation of boride layers at the Fe10% Cr alloy/Boron interface. <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 398, 113-122	5.7	63
220	Electrodeposited NiAl particle composite coatings. <i>Thin Solid Films</i> , <b>1997</b> , 307, 133-140	2.2	61
219	Infrared Interlayer Exciton Emission in MoS <sub>2</sub> /WSe <sub>2</sub> Heterostructures. <i>Physical Review Letters</i> , <b>2019</b> , 123, 247402	7.4	56
218	Grain growth and ordering kinetics in CoPt thin films. <i>Journal of Applied Physics</i> , <b>1996</b> , 79, 5330	2.5	54
217	Phase formation sequence for the reaction of multilayer thin films of Nb/Al. <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 7313-7322	2.5	54
216	Calorimetric studies of the A1 to L10 transformation in binary FePt thin films with compositions in the range of 47.5-54.4at.% Fe. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 024902	2.5	53
215	A Commentary on: Reaction Kinetics in Processes of Nucleation and Growth. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2010</b> , 41, 2711-2775	2.3	51
214	Grain boundary energy and grain growth in Al films: Comparison of experiments and simulations. <i>Scripta Materialia</i> , <b>2006</b> , 54, 1059-1063	5.6	51
213	Calorimetric studies of the A1 to L10 transformation in FePt and related ternary alloy thin films. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 7486-7488	2.5	51
212	Surface and grain boundary scattering in nanometric Cu thin films: A quantitative analysis including twin boundaries. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2014</b> , 32, 061503	2.9	50
211	Time-temperature-transformation diagrams for the A1 to L10 phase transformation in FePt and FeCuPt thin films. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 014905	2.5	50
210	A methodology for automated quantitative microstructural analysis of transmission electron micrographs. <i>Journal of Applied Physics</i> , <b>1998</b> , 84, 5843-5854	2.5	50
209	Impact of heterogeneous boundary nucleation on transformation kinetics and microstructure. <i>Acta Materialia</i> , <b>1997</b> , 45, 1153-1166	8.4	48
208	Interdiffusion in bilayer CoPt/Co films: potential for tailoring the magnetic exchange spring. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2001</b> , 233, 257-273	2.8	48

207	Visible-light photochemical activity of heterostructured core-shell materials composed of selected ternary titanates and ferrites coated by $\text{TiO}_2$ . <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 5064-71	9.5	47
206	A comparison of texture results obtained using precession electron diffraction and neutron diffraction methods at diminishing length scales in ordered bimetallic nanolamellar composites. <i>Scripta Materialia</i> , <b>2012</b> , 67, 336-339	5.6	46
205	Dissociation of dilute immiscible copper alloy thin films. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 2204-2214	2.5	46
204	Characterization of single and discretely-stepped electro-composite coatings of nickel-alumina. <i>Journal of Materials Science</i> , <b>1999</b> , 34, 3203-3211	4.3	46
203	Microstructural characterization and hardness of electrodeposited nickel coatings from a sulphamate bath. <i>Journal of Materials Science</i> , <b>1998</b> , 33, 639-645	4.3	44
202	Thin film reaction kinetics of niobium/aluminum multilayers. <i>Journal of Applied Physics</i> , <b>1992</b> , 72, 1341-1349	3.4	44
201	Capturing the complex physics behind universal grain size distributions in thin metallic films. <i>Acta Materialia</i> , <b>2014</b> , 64, 72-77	8.4	43
200	Effect of alloy composition on the thermodynamic and kinetic parameters of the A1 to L10 transformation in FePt, FeNiPt, and FeCuPt films. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 024912	2.5	43
199	Sintering prevention and phase transformation of FePt nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 284, 336-341	2.8	42
198	Failure of semiclassical models to describe resistivity of nanometric, polycrystalline tungsten films. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 104308	2.5	41
197	Re-evaluation of the impact of ternary additions of Ni and Cu on the A1 to L10 transformation in FePt films. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 123916	2.5	40
196	Via Method for Lithography Free Contact and Preservation of 2D Materials. <i>Nano Letters</i> , <b>2018</b> , 18, 1416-1420	1.5	37
195	Interfacial orientation and misorientation relationships in nanolamellar Cu/Nb composites using transmission-electron-microscope-based orientation and phase mapping. <i>Acta Materialia</i> , <b>2014</b> , 64, 333-344	8.4	37
194	Fabrication and characterization of reactive multilayer films and foils <b>2014</b> , 160-243		36
193	Grain boundary character distribution of nanocrystalline Cu thin films using stereological analysis of transmission electron microscope orientation maps. <i>Microscopy and Microanalysis</i> , <b>2013</b> , 19, 111-9	0.5	36
192	Resistivity size effect in epitaxial Ru(0001) layers. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 165105	2.5	36
191	Role of stress relief in the hexagonal-close-packed to face-centered-cubic phase transformation in cobalt thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1993</b> , 11, 1435-1440	2.9	35
190	De Magnete et Meteorite: Cosmically Motivated Materials. <i>IEEE Magnetism Letters</i> , <b>2014</b> , 5, 1-4	1.6	34

189	Effect of downscaling nano-copper interconnects on the microstructure revealed by high resolution TEM-orientation-mapping. <i>Nanotechnology</i> , <b>2012</b> , 23, 135702	3.4	34
188	Intrinsic magnetic properties of L10 FeNi obtained from meteorite NWA 6259. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 17E318	2.5	33
187	Thermodynamic and kinetic parameters of the chemical order-disorder transformation in L10 FeNi (tetraetaenite). <i>Acta Materialia</i> , <b>2016</b> , 103, 608-615	8.4	33
186	A1 to L1 $\delta_{0}$ Transformation in FePt Films With Ternary Alloying Additions of Ag and Au. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 1773-1776	2	33
185	Classical size effect in oxide-encapsulated Cu thin films: Impact of grain boundaries versus surfaces on resistivity. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2008</b> , 26, 605-609 <sup>2.9</sup>	2.9	33
184	Stoichiometry-anisotropy connections in epitaxial L10 FePt(001) films. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 7501-7503	2.5	31
183	Critical events, entropy, and the grain boundary character distribution. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	30
182	Extreme value analysis of tail departure from log-normality in experimental and simulated grain size distributions. <i>Acta Materialia</i> , <b>2013</b> , 61, 5595-5604	8.4	29
181	Granular L10 FePt-B and FePt-B-Ag (001) thin films for heat assisted magnetic recording. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 07B709	2.5	29
180	Differential scanning calorimetry studies of the effect of Cu on the A1 to L10 transformation in FePt thin films. <i>Scripta Materialia</i> , <b>2005</b> , 53, 423-428	5.6	29
179	Grain growth in ultrathin films of CoPt and FePt. <i>Journal of Materials Research</i> , <b>1999</b> , 14, 3263-3270	2.5	29
178	Issues associated with the analysis and acquisition of thin-film grain size data. <i>Materials Letters</i> , <b>1999</b> , 41, 296-302	3.3	29
177	Simulation of electrical conduction in thin polycrystalline metallic films: Impact of microstructure. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 133703	2.5	28
176	Crystallographic anisotropy of the resistivity size effect in single crystal tungsten nanowires. <i>Scientific Reports</i> , <b>2013</b> , 3, 2591	4.9	28
175	High contrast hollow-cone dark field transmission electron microscopy for nanocrystalline grain size quantification. <i>Micron</i> , <b>2010</b> , 41, 177-82	2.3	27
174	Two-dimensional profiling of shallow junctions in Si metal-oxide-semiconductor structures using scanning tunneling spectroscopy and transmission electron microscopy. <i>Journal of Applied Physics</i> , <b>1996</b> , 79, 2115-2121	2.5	27
173	Topologically close-packed phases: Deposition and formation mechanism of metastable $\delta$ W in thin films. <i>Acta Materialia</i> , <b>2016</b> , 104, 223-227	8.4	26
172	Resistivity scaling and electron surface scattering in epitaxial Co(0001) layers. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 245105	2.5	26

171	Granular L10 FePt:X (X = Ag, B, C, SiO <sub>x</sub> , TaO <sub>x</sub> ) thin films for heat assisted magnetic recording. <i>European Physical Journal B</i> , <b>2013</b> , 86, 1	1.2	26
170	Calorimetric determination of NiAl <sub>3</sub> -growth kinetics in sputter-deposited Ni/Al diffusion couples. <i>Journal of Alloys and Compounds</i> , <b>1997</b> , 257, 211-214	5.7	26
169	Metastable and equilibrium phase formation in sputter-deposited Ti/Al multilayer thin films. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 9575	2.5	26
168	The five-parameter grain boundary character distribution of nanocrystalline tungsten. <i>Scripta Materialia</i> , <b>2013</b> , 69, 413-416	5.6	25
167	Effect of annealing on magnetic exchange coupling in CoPt/Co bilayer thin films. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 6140-6142	2.5	24
166	X-ray diffraction for characterizing metallic films <b>2014</b> , 3-38		23
165	Structure of electrodeposited graded composite coatings of Ni <sub>1-x</sub> Al <sub>x</sub> O <sub>3</sub> . <i>Journal of Microscopy</i> , <b>1997</b> , 185, 265-274	1.9	23
164	On the potential of tungsten as next-generation semiconductor interconnects. <i>Electronic Materials Letters</i> , <b>2017</b> , 13, 449-456	2.9	22
163	Evidence of a two-stage reaction mechanism in sputter deposited Nb/Al multilayer thin-films studied by in situ synchrotron X-ray diffraction. <i>Materials Letters</i> , <b>1999</b> , 39, 268-273	3.3	22
162	Intrinsic Properties of Fe-Substituted $L1_{0}$ Magnets. <i>IEEE Transactions on Magnetism</i> , <b>2013</b> , 49, 5194-5198		21
161	Texture of Cu and dilute binary Cu-alloy films: impact of annealing and solute content. <i>Materials Science in Semiconductor Processing</i> , <b>2003</b> , 6, 175-184	4.3	21
160	Crystallization of amorphous Co-Si alloys. <i>Journal of Applied Physics</i> , <b>1992</b> , 72, 3423-3430	2.5	21
159	Impact of short-range repulsive interactions between nuclei on the evolution of a phase transformation. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 915	3.9	20
158	A new model for grain boundary diffusion and nucleation in thin film reactions. <i>Acta Metallurgica Et Materialia</i> , <b>1994</b> , 42, 2905-2911		20
157	The Orientation Distributions of Lines, Surfaces, and Interfaces around Three-Phase Boundaries in Solid Oxide Fuel Cell Cathodes. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 4045-4051	3.8	19
156	Texture and resistivity of dilute binary Cu(Al), Cu(In), Cu(Ti), Cu(Nb), Cu(Ir), and Cu(W) alloy thin films. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2002</b> , 20, 2314		19
155	Discovery of process-induced tetragonality in equiatomic ferromagnetic FeNi. <i>Acta Materialia</i> , <b>2016</b> , 116, 263-269	8.4	19
154	Experimental measurements of the heats of formation of Fe <sub>3</sub> Pt, FePt, and FePt <sub>3</sub> using differential scanning calorimetry. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 013903	2.5	18

153	The A1 to L10 transformation in FePt and FeCuPt thin films: Determination of isothermal transformation kinetics from nonisothermal measurements. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 08G901 <sup>2-5</sup>	18
152	Interfacial composition and microstructure of Fe/sub 3/O/sub 4/ magnetic tunnel junctions. <i>IEEE Transactions on Magnetics</i> , <b>2003</b> , 39, 2806-2808	2 18
151	Quantitative analysis of spatial distribution of nucleation sites: microstructural implications. <i>Acta Materialia</i> , <b>1999</b> , 47, 435-445	8.4 18
150	Low-magnification Quantitative X-ray Mapping of Grain-boundary Segregation in Aluminum-4 wt.% Copper by Analytical Electron Microscopy. <i>Microscopy and Microanalysis</i> , <b>1999</b> , 5, 254-266	0.5 18
149	Diffusivity Reveals Three Distinct Phases of Interlayer Excitons in MoSe <sub>2</sub> /WSe <sub>2</sub> Heterobilayers. <i>Physical Review Letters</i> , <b>2021</b> , 126, 106804	7.4 18
148	Transformation of topologically close-packed $\sqrt{3}\sqrt{3}$ to body-centered cubic $\sqrt{3}\sqrt{3}$ : Comparison of experiments and computations. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 152709	3.9 17
147	Interaction of iron-chromium alloys containing 10 and 25 mass% chromium with liquid aluminium Part II Formation of intermetallic compounds. <i>Journal of Materials Science</i> , <b>2004</b> , 39, 4219-4230	4.3 17
146	Microstructure evolution during solid state reactions of Nb/Al multilayers. <i>Acta Materialia</i> , <b>2001</b> , 49, 2813-2826	8.4 17
145	The Early Stages of Solid-State Reactions in Ti/Al Multilayer Films. <i>Materials Research Society Symposia Proceedings</i> , <b>1995</b> , 398, 245	17
144	The A1 to L10 transformation in FePt films with ternary alloying additions of Mg, V, Mn, and B. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 07B739	2.5 16
143	Evolution of grain structure in thin film reactions. <i>Journal of Electronic Materials</i> , <b>1997</b> , 26, 1009-1020	1.9 16
142	Towards a Statistical Theory of Texture Evolution in Polycrystals. <i>SIAM Journal of Scientific Computing</i> , <b>2008</b> , 30, 3150-3169	2.6 16
141	Interfacial interaction of solid nickel with liquid bismuth and BiBase alloys. <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 389, 61-74	5.7 16
140	Formation of the first phase in sputter-deposited Nb/Al multilayer thin films. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1998</b> , 77, 167-185	16
139	Copper oxide catalyst supported on niobium oxide for CO oxidation at low temperatures. <i>Catalysis Communications</i> , <b>2017</b> , 97, 42-46	3.2 15
138	Interaction of iron-chromium alloys containing 10 and 25 mass% chromium with liquid aluminium Part I Dissolution kinetics. <i>Journal of Materials Science</i> , <b>2003</b> , 38, 3249-3255	4.3 15
137	Ferromagnetic exchange-spring nanocomposites of A1 + L1/sub 0/ CoPt. <i>IEEE Transactions on Magnetics</i> , <b>2002</b> , 38, 2799-2801	2 15
136	Resistivity and surface scattering of (0001) single crystal ruthenium thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2019</b> , 37, 031516	2.9 14

135	Interdiffusion in nanometric Fe/Ni multilayer films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2015</b> , 33, 021510	2.9	14
134	Epitaxial metals for interconnects beyond Cu. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2020</b> , 38, 033406	2.9	14
133	Interfacial interaction of solid cobalt with liquid Pb-free SnBiInZnSb soldering alloys. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 5960-5979	4.3	14
132	Enhanced Superconductivity in Monolayer -MoTe. <i>Nano Letters</i> , <b>2021</b> , 21, 2505-2511	11.5	14
131	Comparison of crystal orientation mapping-based and image-based measurement of grain size and grain size distribution in a thin aluminum film. <i>Acta Materialia</i> , <b>2014</b> , 79, 138-145	8.4	13
130	Impact of boundary nucleation on product grain size distribution. <i>Journal of Materials Research</i> , <b>1997</b> , 12, 1501-1507	2.5	13
129	Nb/Al and Nb/Al(Cu) multilayer thin films: the enthalpy of formation of NbAl <sub>3</sub> . <i>Thermochimica Acta</i> , <b>2000</b> , 348, 53-59	2.9	13
128	Formation of a C49 TiGe <sub>2</sub> phase during annealing a coevaporated Ti <sub>0.33</sub> Ge <sub>0.67</sub> alloy. <i>Applied Physics Letters</i> , <b>1993</b> , 62, 3435-3437	3.4	13
127	Grain boundary diffusion and its effects on the magnetic properties of Co/Cu and Co/Cr thin film bilayers. <i>Journal of Applied Physics</i> , <b>1994</b> , 75, 5052-5060	2.5	13
126	The grain boundary character distribution of highly twinned nanocrystalline thin film aluminum compared to bulk microcrystalline aluminum. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 9819-9833	4.3	12
125	Resistivity in rough metallic thin films: A Monte Carlo study. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 013704	4.5	12
124	Grain Growth and the Puzzle of its Stagnation in Thin Films a Detailed Comparison of Experiments and Simulations. <i>Materials Science Forum</i> , <b>2012</b> , 715-716, 473-479	0.4	12
123	Characterization of Pt-Ru binary alloy thin films for work function tuning. <i>IEEE Electron Device Letters</i> , <b>2006</b> , 27, 542-545	4.4	12
122	Phase transformation kinetics and self-patterning in misfitting thin films. <i>Acta Materialia</i> , <b>2003</b> , 51, 6415-6427	4.27	12
121	Robust exchange coupling in bilayer exchange-spring thin films. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 7235-7237	3.7	12
120	Microstructure Evolution During Solid-State Reactions in Polycrystalline Nb/Al and Ti/Ai Multilayer Thin-Films. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 562, 159		12
119	Kinetics of first-order phase transitions with correlated nuclei. <i>Physical Review E</i> , <b>2017</b> , 95, 022121	2.4	11
118	TiSi <sub>2</sub> Formation on Submicron Polysilicon Lines: Role of Line Width and Dopant Concentration. <i>Materials Research Society Symposia Proceedings</i> , <b>1993</b> , 303, 109		11



117	Effect of an Interfacial Ti Layer on the Formation of CoSi <sub>2</sub> on Si. <i>Materials Research Society Symposia Proceedings</i> , <b>1991</b> , 238, 575		11
116	Direct Measurement of the Radiative Pattern of Bright and Dark Excitons and Exciton Complexes in Encapsulated Tungsten Diselenide. <i>Scientific Reports</i> , <b>2020</b> , 10, 8091	4.9	10
115	The CoPt system: a natural exchange spring. <i>Physica B: Condensed Matter</i> , <b>2003</b> , 327, 190-193	2.8	10
114	An entropy based theory of the grain boundary character distribution. <i>Discrete and Continuous Dynamical Systems</i> , <b>2011</b> , 30, 427-454	2	10
113	Quantitative Structural Characterization of Catalytically Active TiO <sub>2</sub> Nanoparticles. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 6268-6276	5.6	9
112	On twin density and resistivity of nanometric Cu thin films. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 065106	2.5	9
111	L1 $\text{FePt}$ : Ordering, Anisotropy Constant and Their Relation to Film Composition. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 3284-3291	2	9
110	Grain size dependence of the twin length fraction in nanocrystalline Cu thin films via transmission electron microscopy based orientation mapping. <i>Journal of Materials Research</i> , <b>2015</b> , 30, 528-537	2.5	9
109	An EFTEM and conical dark field investigation of co-sputtered CoPt+Yttria stabilized zirconia thin films. <i>Micron</i> , <b>1998</b> , 29, 33-41	2.3	9
108	. <i>IEEE Transactions on Electron Devices</i> , <b>2007</b> , 54, 807-813	2.9	9
107	Interphase exchange effects in CoPt/Co bilayer thin films. <i>Journal Physics D: Applied Physics</i> , <b>2004</b> , 37, 2638-2642	3	9
106	. <i>IEEE Transactions on Magnetics</i> , <b>1989</b> , 25, 2093-2096	2	9
105	Atomistic simulations of grain boundary energies in tungsten. <i>Materials Letters</i> , <b>2017</b> , 186, 116-118	3.3	8
104	L1 <sub>0</sub> -CoPt/Co bilayer ferromagnetic films: interdiffusion, structure and microstructure. <i>Acta Materialia</i> , <b>2003</b> , 51, 313-323	8.4	8
103	Light scattering from spin wave excitations in a Co/CoPt exchange spring. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 290-291, 530-532	2.8	8
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