

Seong-Rae Lee

List of Publications by Year in descending order

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62
papers

1,206
citations

361413

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docs citations

62
times ranked

837
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructural modification of grain boundary area in WS ₂ /Al co-doped Nd-Fe-B sintered magnet. <i>Intermetallics</i> , 2018, 92, 93-100.	3.9	7
2	Effects of Al/Cu co-doping on crystal structure and chemical composition of Nd-rich phases in Nd-Fe-B sintered magnet. <i>Acta Materialia</i> , 2017, 133, 200-207.	7.9	37
3	Strong interlayer exchange coupling and high post-annealing stability in perpendicularly magnetized [Pt/Co]/Ru/[Co/Pt] structures. <i>AIP Advances</i> , 2016, 6, .	1.3	19
4	Anisotropic diffusion mechanism in grain boundary diffusion processed Nd-Fe-B sintered magnet. <i>Acta Materialia</i> , 2016, 112, 59-66.	7.9	68
5	Few-Layer Graphene Island Seeding for Dendrite-Free Li Metal Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26895-26901.	8.0	63
6	Effect of WS ₂ /Al co-doping on microstructural and magnetic properties of Nd-Fe-B sintered magnets. <i>Journal of Alloys and Compounds</i> , 2016, 673, 321-326.	5.5	13
7	Effect of oxygen content of Nd-Fe-B sintered magnet on grain boundary diffusion process of DyH ₂ dip-coating. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	32
8	Effect of surface etching on the magnetic properties and grain-boundary Dy-diffusion in DyH ₂ -dip-coated sintered Nd-Fe-B magnets. <i>Metals and Materials International</i> , 2015, 21, 600-606.	3.4	12
9	Simultaneous application of Dy-X (X= F or H) powder doping and dip-coating processes to Nd-Fe-B sintered magnets. <i>Acta Materialia</i> , 2015, 93, 95-104.	7.9	88
10	Interlayer exchange coupling between perpendicularly magnetized structures through a Ru/Ta composite spacer. <i>Applied Physics Letters</i> , 2015, 106, 132401.	3.3	7
11	Optimization of the post-sintering annealing condition for the high Cu content Nd-Fe-B sintered magnet. <i>Journal of Applied Physics</i> , 2014, 115, 17A770.	2.5	9
12	Magnetic and microstructural modification of the Nd-Fe-B sintered magnet by mixed DyF ₃ /DyH _x powder doping. <i>Journal of Applied Physics</i> , 2014, 115, 17A763.	2.5	22
13	Cu-Containing [Pt/Co] Multilayers With Low Saturation Magnetization Suitable for the Pinned Structure. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.	2.1	2
14	Dependence of magnetic, phase-transformation and microstructural characteristics on the Cu content of Nd-Fe-B sintered magnet. <i>Acta Materialia</i> , 2014, 66, 12-21.	7.9	86
15	Magnetic and microstructural characteristics of DyF ₃ /DyH dip-coated Nd-Fe-B sintered magnets. <i>Journal of Alloys and Compounds</i> , 2014, 612, 183-188.	5.5	52
16	Structural and electrochemical properties of LiNi _{0.7} Co _{0.15} Mn _{0.15} O ₂ thin film prepared by high frequency hybrid direct current and radio frequency magnetron sputtering. <i>Journal of Electroceramics</i> , 2013, 31, 316-323.	2.0	7
17	Magnetic and Microstructural Characteristics of a Dy ₃ Dip-Coated Nd-Fe-B Sintered Magnet. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 3251-3254.	2.1	18
18	Effects of Co layer thickness and annealing temperature on the magnetic properties of inverted [Pt/Co] multilayers. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	26

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19	High post-annealing stability in [Pt/Co] multilayers. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	31
20	Effects of DyHx and Dy2O3 powder addition on magnetic and microstructural properties of Nd-Fe-B sintered magnets. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	28
21	A study on the Nd-rich phase evolution in the Nd-Fe-B sintered magnet and its mechanism during post-sintering annealing. <i>Journal of Alloys and Compounds</i> , 2012, 537, 261-268.	5.5	114
22	Magnetic and Microstructural Characteristics of Nd-Fe-B Sintered Magnets Doped With Dy ₂ O ₃ and DyF ₃ Powders. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 3259-3262.	2.1	32
23	Effect of Dy on the microstructural and magnetic properties of an Nd-Fe-B strip-cast alloy. <i>Metals and Materials International</i> , 2011, 17, 329-334.	3.4	7
24	Microstructural and electrochemical properties of Ti-doped Al ₂ O ₃ coated LiCoO ₂ films. <i>Metals and Materials International</i> , 2011, 17, 649-654.	3.4	2
25	Microstructural evolution of triple junction and grain boundary phases of a Nd-Fe-B sintered magnet by post-sintering annealing. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	20
26	Dependence of Al ₂ O ₃ coating thickness and annealing conditions on microstructural and electrochemical properties of LiCoO ₂ film. <i>Metals and Materials International</i> , 2010, 16, 93-98.	3.4	4
27	Magnetic and microstructural properties of Cu-doped FePt-Zr/MgO multilayer films. <i>Journal of Applied Physics</i> , 2010, 108, 103913.	2.5	3
28	Effect of annealing on microstructural changes of Nd-rich phases and magnetic properties of Nd-Fe-B sintered magnet. <i>Journal of Applied Physics</i> , 2010, 107, 09A737.	2.5	21
29	Study on Exchange-Biased Perpendicular Magnetic Tunnel Junction Based on Pd/Co Multilayers. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 2407-2409.	2.1	8
30	Thickness Dependence of (001) Texture Evolution and Magnetic Properties of Sputter-Deposited FePt:MgO Nanocomposite Films. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 3535-3538.	2.1	4
31	Influence of thickness and band structure of insulating barriers on resistance and tunneling magnetoresistance properties of magnetic tunnel junctions with Al-oxide and Ti-alloyed Al-oxide barriers. <i>Current Applied Physics</i> , 2007, 7, 18-20.	2.4	4
32	Effect of new materials as under and cap layers on thermal stability of synthetic bottom spin valves. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 1908-1910.	2.3	0
33	Microstructural and magnetic properties of CoFeZr films and the tunnel magnetoresistance behaviors of the magnetic tunnel junctions with amorphous CoFeZr ferromagnetic layers. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 1923-1925.	2.3	5
34	Effect of interface intermixing on the magnetoresistive and the exchange coupling in bottom- and top-spin valves. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 4368-4371.	0.8	2
35	Effect of capping layer on the crystallization of amorphous CoFeB. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 3995-3998.	1.8	8
36	Effect of Nb concentration on the microstructure of Al and the magnetoresistive properties of the magnetic tunnel junction with a Nb-doped Al-oxide barrier. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 3938-3941.	1.8	0

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37	The origin of (001) texture evolution in FePt thin films on amorphous substrates. Journal of Applied Physics, 2006, 99, 053906.	2.5	95
38	The dependence of specular behavior and thermal stability on capping layer thickness in spin valves. Journal of Applied Physics, 2006, 99, 08R704.	2.5	2
39	Effects of sputtering pressure on the characteristics of lithium ion conductive lithium phosphorous oxynitride thin film. Journal of Electroceramics, 2006, 17, 1023-1030.	2.0	57
40	Low resistance and enhanced thermal and electrical stability of the magnetic tunnel junction with a Ti-alloyed Al-oxide barrier. , 2005, , .		0
41	Thermal stability of magnetic tunnel junctions with new amorphous ZrAl-alloy films as the under and capping layers. IEEE Transactions on Magnetics, 2005, 41, 2667-2669.	2.1	16
42	Effect of H2 sputter gas on interfacial mixing in spin valves. Journal of Applied Physics, 2005, 97, 10N707.	2.5	1
43	Band structure modification of Al oxide by Ti-alloying and magnetoresistance behavior of magnetic tunnel junctions with Ti-alloyed Al oxide barrier. Applied Physics Letters, 2005, 86, 252501.	3.3	8
44	Interface intermixing of CoFe/IrMn and IrMn/CoFe and its influence on magnetoresistive and exchange coupling. , 2005, , .		0
45	Thermal stability and specular reflection behaviour of CoNbZr-based bottom spin valves with nano-oxide layer. Physica Status Solidi A, 2004, 201, 1743-1746.	1.7	1
46	Influence of insulating barrier thickness on the magnetoresistance properties of a magnetic tunnel junction with Zr-alloyed Al oxide barrier. Physica Status Solidi A, 2004, 201, 1704-1707.	1.7	4
47	Magnetic tunnel junctions stabilized by modified synthetic antiferromagnets. Physica Status Solidi A, 2004, 201, 1676-1679.	1.7	2
48	Magnetoresistive properties and thermal stability of CoNbZr-based spin valves with Co80Fe20 ferromagnet. Physica Status Solidi A, 2004, 201, 1747-1750.	1.7	0
49	Thermal and Electrical Stability Behavior of a Magnetic Tunnel Junction With a New Zr-Alloyed Al-Oxide Barrier. IEEE Transactions on Magnetics, 2004, 40, 2281-2283.	2.1	6
50	Thermal Stability of Spin Valves Incorporating New Amorphous ZrAl Alloy Films as Under and Capping Layers. IEEE Transactions on Magnetics, 2004, 40, 2206-2208.	2.1	2
51	Magnetoresistance Characteristics of Magnetic Tunnel Junctions Consisting of Amorphous CoNbZr Alloys for Under and Capping Layers. Journal of Magnetism, 2004, 9, 13-16.	0.4	4
52	Interface and microstructure evolutions in synthetic ferrimagnet-based spin valves upon exposure to postdeposition annealing. Journal of Applied Physics, 2003, 93, 7924-7926.	2.5	14
53	Analysis on giant magnetoresistive characteristics of synthetic antiferromagnet-based spin valves with modified pinned layers. IEEE Transactions on Magnetics, 2003, 39, 2399-2401.	2.1	1
54	Effect of Zr concentration on the microstructure of Al and the magnetoresistance properties of the magnetic tunnel junction with a Zr-alloyed Al-oxide barrier. Applied Physics Letters, 2003, 83, 317-319.	3.3	33

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55	Thermal and Mn diffusion behaviors of CoNbZr-based spin valves with nano oxide layers. IEEE Transactions on Magnetism, 2003, 39, 2824-2826.	2.1	3
56	Characteristics of magnetic tunnel junctions consisting of amorphous CoNbZr layers. Journal of Applied Physics, 2003, 93, 8361-8363.	2.5	10
57	Exchange coupling characteristics of bottom-type synthetic ferrimagnet based spin valves. Journal of Applied Physics, 2002, 91, 7107.	2.5	6
58	Thermal stability of spin-valves incorporating amorphous CoNbZr under and capping layers. Journal of Applied Physics, 2002, 91, 8581.	2.5	25
59	Interlayer diffusion and specularly aspects of amorphous CoNbZr-based spin-valves. IEEE Transactions on Magnetism, 2002, 38, 2685-2687.	2.1	11
60	Permeability enhancement in Fe/CoNbZr multilayers prepared by Ar/H ₂ mixed gas sputtering and heat treatment. Journal of Magnetism and Magnetic Materials, 2001, 233, 142-146.	2.3	8
61	Magnetoresistance and interlayer diffusion in PtMn spin valves upon postdeposition annealing. Journal of Applied Physics, 2001, 89, 6907-6909.	2.5	35
62	Structural and magnetoresistance characteristics of CoFe/Ag/NiFe/Ag composite discontinuous multilayers. Applied Physics Letters, 2000, 77, 4199-4201.	3.3	1