# Seong-Rae Lee

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 62 papers | 1,206 citations | 361413 20 h-index | 377865 34 g-index |
| 62 all docs | 62 docs citations | 62 times ranked | 837 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A study on the Nd-rich phase evolution in the Ndâ€“Feâ€“B sintered magnet and its mechanism during post-sintering annealing. Journal of Alloys and Compounds, 2012, 537, 261-268. | 5.5 | 114 |
| 2 | The origin of (001) texture evolution in FePt thin films on amorphous substrates. Journal of Applied Physics, 2006, 99, 053906. | 2.5 | 95 |
| 3 | Simultaneous application of Dyâ€“X (X= F or H) powder doping and dip-coating processes to Ndâ€“Feâ€“B sintered magnets. Acta Materialia, 2015, 93, 95-104. | 7.9 | 88 |
| 4 | Dependence of magnetic, phase-transformation and microstructural characteristics on the Cu content of Ndâ€“Feâ€“B sintered magnet. Acta Materialia, 2014, 66, 12-21. | 7.9 | 86 |
| 5 | Anisotropic diffusion mechanism in grain boundary diffusion processed Ndâ€“Feâ€“B sintered magnet. Acta Materialia, 2016, 112, 59-66. | 7.9 | 68 |
| 6 | Few-Layer Graphene Island Seeding for Dendrite-Free Li Metal Electrodes. ACS Applied Materials & Interfaces, 2016, 8, 26895-26901. | 8.0 | 63 |
| 7 | 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 |
| 8 | Magnetic and microstructural characteristics of DyF3/DyH dip-coated Ndâ€“Feâ€“B sintered magnets. Journal of Alloys and Compounds, 2014, 612, 183-188. | 5.5 | 52 |
| 9 | Effects of Al/Cu co-doping on crystal structure and chemical composition of Nd-rich phases in Nd-Fe-B sintered magnet. Acta Materialia, 2017, 133, 200-207. | 7.9 | 37 |
| 10 | Magnetoresistance and interlayer diffusion in PtMn spin valves upon postdeposition annealing. Journal of Applied Physics, 2001, 89, 6907-6909. | 2.5 | 35 |
| 11 | Effect of Zr concentration on the microstructure of Al and the magnetoresistance properties of the magnetic tunnel junction with a Zr-alloyed Alâ€“oxide barrier. Applied Physics Letters, 2003, 83, 317-319. | 3.3 | 33 |
| 12 | Magnetic and Microstructural Characteristics of Nd-Fe-B Sintered Magnets Doped With Dy$_2$O$_3$ and DyF$_3$ Powders. IEEE Transactions on Magnetics, 2011, 47, 3259-3262. | 2.1 | 32 |
| 13 | Effect of oxygen content of Ndâ€“Feâ€“B sintered magnet on grain boundary diffusion process of DyH2 dip-coating. Journal of Applied Physics, 2015, 118, . | 2.5 | 32 |
| 14 | High post-annealing stability in [Pt/Co] multilayers. Journal of Applied Physics, 2013, 113, . | 2.5 | 31 |
| 15 | Effects of DyHx and Dy2O3 powder addition on magnetic and microstructural properties of Nd-Fe-B sintered magnets. Journal of Applied Physics, 2012, 112, . | 2.5 | 28 |
| 16 | Effects of Co layer thickness and annealing temperature on the magnetic properties of inverted [Pt/Co] multilayers. Journal of Applied Physics, 2013, 114, . | 2.5 | 26 |
| 17 | Thermal stability of spin-valves incorporating amorphous CoNbZr under and capping layers. Journal of Applied Physics, 2002, 91, 8581. | 2.5 | 25 |
| 18 | Magnetic and microstructural modification of the Ndâ€“Feâ€“B sintered magnet by mixed DyF3/DyHx powder doping. Journal of Applied Physics, 2014, 115, 17A763. | 2.5 | 22 |

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|---|---|---|---|
| 19 | Effect of annealing on microstructural changes of Nd-rich phases and magnetic properties of Ndâ€“Feâ€“B sintered magnet. Journal of Applied Physics, 2010, 107, 09A737. | 2.5 | 21 |
| 20 | Microstructural evolution of triple junction and grain boundary phases of a Nd-Fe-B sintered magnet by post-sintering annealing. Journal of Applied Physics, 2011, 109, . | 2.5 | 20 |
| 21 | Strong interlayer exchange coupling and high post-annealing stability in perpendicularly magnetized [Pt/Co]/Ru/[Co/Pt] structures. AIP Advances, 2016, 6, . | 1.3 | 19 |
| 22 | Magnetic and Microstructural Characteristics of a DyF$_{3}$ Dip-Coated Nd-Fe-B Sintered Magnet. IEEE Transactions on Magnetics, 2013, 49, 3251-3254. | 2.1 | 18 |
| 23 | 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 |
| 24 | 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 |
| 25 | Effect of WS2/Al co-doping on microstructural and magnetic properties of Ndâ^'Feâ^'B sintered magnets. Journal of Alloys and Compounds, 2016, 673, 321-326. | 5.5 | 13 |
| 26 | Effect of surface etching on the magnetic properties and grain-boundary Dy-diffusion in DyH2-dip-coated sintered Nd-Fe-B magnets. Metals and Materials International, 2015, 21, 600-606. | 3.4 | 12 |
| 27 | Interlayer diffusion and specularity aspects of amorphous CoNbZr-based spin-valves. IEEE Transactions on Magnetics, 2002, 38, 2685-2687. | 2.1 | 11 |
| 28 | Characteristics of magnetic tunnel junctions consisting of amorphous CoNbZr layers. Journal of Applied Physics, 2003, 93, 8361-8363. | 2.5 | 10 |
| 29 | Optimization of the post-sintering annealing condition for the high Cu content Nd-Fe-B sintered magnet. Journal of Applied Physics, 2014, 115, 17A770. | 2.5 | 9 |
| 30 | Permeability enhancement in Fe/CoNbZr multilayers prepared by Ar/H2 mixed gas sputtering and heat treatment. Journal of Magnetism and Magnetic Materials, 2001, 233, 142-146. | 2.3 | 8 |
| 31 | 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 |
| 32 | Effect of capping layer on the crystallization of amorphous CoFeB. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3995-3998. | 1.8 | 8 |
| 33 | Study on Exchange-Biased Perpendicular Magnetic Tunnel Junction Based on Pd/Co Multilayers. IEEE Transactions on Magnetics, 2009, 45, 2407-2409. | 2.1 | 8 |
| 34 | Effect of Dy on the microstructural and magnetic properties of an Nd-Fe-B strip-cast alloy. Metals and Materials International, 2011, 17, 329-334. | 3.4 | 7 |
| 35 | Structural and electrochemical properties of LiNi0.7Co0.15Mn0.15O2 thin film prepared by high frequency hybrid direct current and radio frequency magnetron sputtering. Journal of Electroceramics, 2013, 31, 316-323. | 2.0 | 7 |
| 36 | Interlayer exchange coupling between perpendicularly magnetized structures through a Ru/Ta composite spacer. Applied Physics Letters, 2015, 106, 132401. | 3.3 | 7 |

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|---|---|---|---|
| 37 | Microstructural modification of grain boundary area in WS2/Al co-doped Nd-Fe-B sintered magnet. Intermetallics, 2018, 92, 93-100. | 3.9 | 7 |
| 38 | Exchange coupling characteristics of bottom-type synthetic ferrimagnet based spin valves. Journal of Applied Physics, 2002, 91, 7107. | 2.5 | 6 |
| 39 | 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 |
| 40 | Microstructural and magnetic properties of CoFeZr films and the tunnel magnetoresistance behaviors of the magnetic tunnel junctions with amorphous CoFeZr ferromagnetic layers. Journal of Magnetism and Magnetic Materials, 2007, 310, 1923-1925. | 2.3 | 5 |
| 41 | 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 |
| 42 | 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. Current Applied Physics, 2007, 7, 18-20. | 2.4 | 4 |
| 43 | Thickness Dependence of (001) Texture Evolution and Magnetic Properties of Sputter-Deposited FePt:MgO Nanocomposite Films. IEEE Transactions on Magnetics, 2008, 44, 3535-3538. | 2.1 | 4 |
| 44 | Dependence of Al2O3 coating thickness and annealing conditions on microstructural and electrochemical properties of LiCoO2 film. Metals and Materials International, 2010, 16, 93-98. | 3.4 | 4 |
| 45 | Magnetoresistance Characteristics of Magnetic Tunnel Junctions Consisting of Amorphous CoNbZr Alloys for Under and Capping Layers. Journal of Magnetics, 2004, 9, 13-16. | 0.4 | 4 |
| 46 | Thermal and Mn diffusion behaviors of CoNbZr-based spin valves with nano oxide layers. IEEE Transactions on Magnetics, 2003, 39, 2824-2826. | 2.1 | 3 |
| 47 | Magnetic and microstructural properties of Cu-doped FePt-Zr/MgO multilayer films. Journal of Applied Physics, 2010, 108, 103913. | 2.5 | 3 |
| 48 | Magnetic tunnel junctions stabilized by modified synthetic antiferromagnets. Physica Status Solidi A, 2004, 201, 1676-1679. | 1.7 | 2 |
| 49 | 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 |
| 50 | The dependence of specularity behavior and thermal stability on capping layer thickness in spin valves. Journal of Applied Physics, 2006, 99, 08R704. | 2.5 | 2 |
| 51 | Effect of interface intermixing on the magnetoresistive and the exchange coupling in bottom- and top-spin valves. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 4368-4371. | 0.8 | 2 |
| 52 | Microstructural and electrochemical properties of Ti-doped Al2O3 coated LiCoO2 films. Metals and Materials International, 2011, 17, 649-654. | 3.4 | 2 |
| 53 | Cu-Containing [Pt/Co] Multilayers With Low Saturation Magnetization Suitable for the Pinned Structure. IEEE Transactions on Magnetics, 2014, 50, 1-4. | 2.1 | 2 |
| 54 | Structural and magnetoresistance characteristics of CoFe/Ag/NiFe/Ag composite discontinuous multilayers. Applied Physics Letters, 2000, 77, 4199-4201. | 3.3 | 1 |

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| 55 | 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 |
| 56 | 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 |
| 57 | Effect of H2 sputter gas on interfacial mixing in spin valves. Journal of Applied Physics, 2005, 97, 10N707. | 2.5 | 1 |
| 58 | Magnetoresistive properties and thermal stability of CoNbZr-based spin valves with Co80Fe20 ferromagnet. Physica Status Solidi A, 2004, 201, 1747-1750. | 1.7 | 0 |
| 59 | Low resistance and enhanced thermal and electrical stability of the magnetic tunnel junction with a Ti-alloyed Al-oxide barrier. , 2005, , . | | 0 |
| 60 | Interface intermixing of CoFe/IrMn and IrMn/CoFe and its influence on magnetoresistive and exchange coupling. , 2005, , . | | 0 |
| 61 | Effect of new materials as under and cap layers on thermal stability of synthetic bottom spin valves. Journal of Magnetism and Magnetic Materials, 2007, 310, 1908-1910. | 2.3 | 0 |
| 62 | Effect of Nb concentration on the microstructure of Al and the magnetoresistive properties of the magnetic tunnel junction with a Nbâ€doped Alâ€oxide barrier. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3938-3941. | 1.8 | 0 |