

# Arabinda Haldar

## List of Publications by Year in descending order

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46  
papers

900  
citations

516710

16  
h-index

477307

29  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1075  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Advances in Magnetism Roadmap on Spin-Wave Computing. IEEE Transactions on Magnetism, 2022, 58, 1-72.  | 2.1  | 179       |
| 2  | A reconfigurable waveguide for energy-efficient transmission and local manipulation of information in a nanomagnetic device. Nature Nanotechnology, 2016, 11, 437-443.                           | 31.5 | 151       |
| 3  | Magnetism in gallium-doped $\text{CeFe}_2$ Martensitic scenario. Physical Review B, 2008, 78, .  | 2.4  | 18        |
| 4  | Deterministic Control of Magnetization Dynamics in Reconfigurable Nanomagnetic Networks for Logic Applications. ACS Nano, 2016, 10, 1690-1698.   | 14.6 | 46        |
| 5  | Time-Domain Study of Magnetization Dynamics in Magnetic Thin Films and Micro- and Nanostructures. Solid State Physics, 2014, , 1-108.  | 0.5  | 41        |
| 6  | Time-domain detection of current controlled magnetization damping in Pt/Ni <sub>81</sub> Fe <sub>19</sub> bilayer and determination of Pt spin Hall angle. Applied Physics Letters, 2014, 105, . | 3.3  | 29        |
| 7  | Isotropic transmission of magnon spin information without a magnetic field. Science Advances, 2017, 3, e1700638.   | 10.3 | 29        |
| 8  | Observation of re-entrant spin glass behavior in $(\text{Ce}_{1-x}\text{Er}_x)\text{Fe}_2$ compounds. Europhysics Letters, 2010, 91, 67006.  | 2.0  | 28        |
| 9  | Brillouin light scattering study of spin waves in NiFe/Co exchange spring bilayer films. Journal of Applied Physics, 2014, 115, .  | 2.5  | 27        |
| 10 | Magnetic, magnetocaloric and neutron diffraction studies on TbNi <sub>5</sub> xM <sub>x</sub> (M=Co and Fe) compounds. Journal of Alloys and Compounds, 2011, 509, 3760-3765.                    | 5.5  | 25        |
| 11 | Artificial metamaterials for reprogrammable magnetic and microwave properties. Applied Physics Letters, 2016, 108, .   | 3.3  | 24        |
| 12 | Temperature and magnetic field induced structural transformation in Si-doped : An in-field X-ray diffraction study. Solid State Communications, 2010, 150, 879-883.                              | 1.9  | 20        |
| 13 | Magnetic and magnetocaloric properties of $\text{Ce}_{1-x}\text{R}_x\text{Fe}_2$ and $\text{Ce}(\text{Fe}_{1-x}\text{M}_x)_2$ compounds. Journal Physics D: Applied Physics, 2010, 43, 285004.   | 2.8  | 20        |
| 14 | Large reversible magnetocaloric effect in Er <sub>3</sub> Co compound. Journal of Applied Physics, 2010, 107, 09A932.  | 2.5  | 19        |
| 15 | Vortex chirality control in circular disks using dipole-coupled nanomagnets. Applied Physics Letters, 2015, 106, .   | 3.3  | 19        |
| 16 | Reconfigurable and self-biased magnonic metamaterials. Journal of Applied Physics, 2020, 128, .  | 2.5  | 18        |
| 17 | Functional magnetic waveguides for magnonics. Applied Physics Letters, 2021, 119, .  | 3.3  | 15        |
| 18 | Reconfigurable Logic Operations via Gate Controlled Skyrmion Motion in a Nanomagnetic Device. ACS Applied Electronic Materials, 2022, 4, 2290-2297.  | 4.3  | 13        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Tunable microwave properties of a skyrmion in an isolated nanodisk. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 529, 167900.  | 2.3 | 12        |
| 20 | Stabilization of antiferromagnetism in CeFe <sub>2</sub> alloys: the effects of chemical and hydrostatic pressure. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 496003.                        | 1.8 | 10        |
| 21 | Martensitic features in Si doped CeFe <sub>2</sub> revealed by magnetization and transport study. <i>Intermetallics</i> , 2010, 18, 1772-1778.   | 3.9 | 10        |
| 22 | Metastable magnetization behavior of magnetocaloric R <sub>6</sub> Co <sub>1.67</sub> Si <sub>3</sub> (R=Tb and Nd) compounds. <i>Physica B: Condensed Matter</i> , 2010, 405, 3446-3451.                | 2.7 | 9         |
| 23 | Magnetic antivortex formation in pound-key-like nanostructures. <i>Applied Physics Letters</i> , 2013, 102, .  | 3.3 | 9         |
| 24 | Microwave assisted gating of spin wave propagation. <i>Applied Physics Letters</i> , 2020, 116, .  | 3.3 | 9         |
| 25 | Magnetic properties and exchange interactions in TbNi <sub>5</sub> â <sup>x</sup> M <sub>x</sub> (M=Co and Fe) compounds: Ab initio calculations. <i>Journal of Applied Physics</i> , 2011, 109, 07E152. | 2.5 | 8         |
| 26 | Giant spin pumping at the ferromagnet (permalloy) â€“ organic semiconductor (perylene diimide) interface. <i>RSC Advances</i> , 2021, 11, 35567-35574.   | 3.6 | 7         |
| 27 | Bias field free tunability of microwave properties based on geometrically controlled isolated permalloy nanomagnets. <i>Applied Physics Letters</i> , 2016, 108, .                                       | 3.3 | 6         |
| 28 | Reconfigurable magnetic and microwave properties of a ferrimagnetic-type artificial crystal. <i>Journal of Applied Physics</i> , 2018, 123, .  | 2.5 | 6         |
| 29 | Reconfigurable microwave properties in C-, L- and S-shaped nanomagnets. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 335003.  | 2.8 | 6         |
| 30 | Reconfigurable microwave properties of zigzag magnetic nanowires. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 455005.  | 2.8 | 6         |
| 31 | Magnetization dynamics of single and trilayer permalloy nanodots. <i>Journal of Applied Physics</i> , 2021, 130, .   | 2.5 | 6         |
| 32 | Magnetization jumps and relaxation effect in doped CeFe <sub>2</sub> . <i>Journal of Physics: Conference Series</i> , 2010, 200, 032021.   | 0.4 | 5         |
| 33 | Bias-free giant tunability of microwave properties in multilayer rhomboid nanomagnets. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 275004.   | 2.8 | 5         |
| 34 | Skyrmion Dynamics in Concentric and Eccentric Nano-Ring Structures. <i>IEEE Transactions on Magnetism</i> , 2022, 58, 1-6.   | 2.1 | 5         |
| 35 | Unconventional spin distributions in thick Ni <sub>80</sub> Fe <sub>20</sub> nanodisks. <i>Applied Physics Letters</i> , 2016, 108, .  | 3.3 | 4         |
| 36 | Effect of seed layer thickness on the Ta crystalline phase and spin Hall angle. <i>Nanoscale</i> , 2021, 13, 19985-19992.  | 5.6 | 4         |

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|----|--|-----|-----------|
| 37 | Magnetostructural transition in Ce(Fe <sub>0.975</sub> Ga <sub>0.025</sub> ) <sub>2</sub> compound. Journal of Applied Physics, 2010, 107, 09E133.   | 2.5 | 3         |
| 38 | High field neutron diffraction study in Ce(Fe <sub>0.95</sub> Si <sub>0.05</sub> ) <sub>2</sub> compound. Journal of Applied Physics, 2011, 109, .   | 2.5 | 3         |
| 39 | Observation of the dynamic modes of a magnetic antivortex using Brillouin light scattering. Physical Review B, 2015, 92, .   | 3.2 | 3         |
| 40 | Geometry and field dependence of the formation of magnetic antivortices in pound-key-like structures. Journal of Applied Physics, 2015, 117, 173902.   | 2.5 | 3         |
| 41 | Reconfigurable microwave properties in trapezoid-shaped nanomagnets without bias magnetic field. Journal of Magnetism and Magnetic Materials, 2021, 540, 168431.   | 2.3 | 3         |
| 42 | Field orientation dependent magnetization reversal and dynamics in sub-100 nm wide permalloy nanowires. Journal Physics D: Applied Physics, 2022, 55, 335001.  | 2.8 | 3         |
| 43 | Role of Fe and Co in optical conductivity and electronic structure of TbNi <sub>4</sub> Fe and TbNi <sub>4</sub> Co. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2014, 117, 414-418. | 0.6 | 2         |
| 44 | Large Spin Pumping and Inverse Spin Hall Effect in Ta/Py Bilayer Structures. Physica Status Solidi (A) Applications and Materials Science, 0, , 2100608.   | 1.8 | 1         |
| 45 | Effect of Ta capping layer on spin dynamics in Co <sub>50</sub> Fe <sub>50</sub> thin films. Solid State Communications, 2022, 348-349, 114743.  | 1.9 | 1         |
| 46 | Control of vortex chirality in Ni <sub>80</sub> Fe <sub>20</sub> dots using dipole coupled nanomagnets. , 2015, , .  |     | 0         |