

Reinoud Lavrijsen

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

2,663
citations

257101

24
h-index

182168

51
g-index

74
all docs

74
docs citations

74
times ranked

3007
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Tuning Magnetic Chirality by Dipolar Interactions. <i>Physical Review Letters</i> , 2019, 123, 157201. | 2.9 | 25 |
| 20 | Integrating all-optical switching with spintronics. <i>Nature Communications</i> , 2019, 10, 110. | 5.8 | 85 |
| 21 | Creep of chiral domain walls. <i>Physical Review B</i> , 2019, 100, . | 1.1 | 12 |
| 22 | Boosting the Performance of WO ₃ /Si Heterostructures for Photoelectrochemical Water Splitting: from the Role of Si to Interface Engineering. <i>Advanced Energy Materials</i> , 2019, 9, 1900940. | 10.2 | 48 |
| 23 | Electrochemistry of Sputtered Hematite Photoanodes: A Comparison of Metallic DC versus Reactive RF Sputtering. <i>ACS Omega</i> , 2019, 4, 9262-9270. | 1.6 | 7 |
| 24 | Investigating optically excited terahertz standing spin waves using noncollinear magnetic bilayers. <i>Physical Review B</i> , 2019, 99, . | 1.1 | 22 |
| 25 | Long-range chiral exchange interaction in synthetic antiferromagnets. <i>Nature Materials</i> , 2019, 18, 703-708. | 13.3 | 83 |
| 26 | Versatile microfluidic flow generated by moulded magnetic artificial cilia. <i>Sensors and Actuators B: Chemical</i> , 2018, 263, 614-624. | 4.0 | 62 |
| 27 | Sputter Grown Fe and Fe/Cr Multilayers With Fourfold Magnetic Anisotropy on GaAs. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-5. | 1.2 | 2 |
| 28 | Synthesis of Ni nanoparticles with controllable magnetic properties by atmospheric pressure microplasma assisted process. <i>AIChE Journal</i> , 2018, 64, 1540-1549. | 1.8 | 17 |
| 29 | Physical and Chemical Defects in WO ₃ Thin Films and Their Impact on Photoelectrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , 2018, 1, 5887-5895. | 2.5 | 53 |
| 30 | Plasma radiation studies in Magnum-PSI using resistive bolometry. <i>Nuclear Fusion</i> , 2018, 58, 106006. | 1.6 | 12 |
| 31 | Fabrication of Scaffold-Based 3D Magnetic Nanowires for Domain Wall Applications. <i>Nanomaterials</i> , 2018, 8, 483. | 1.9 | 26 |
| 32 | Vector magnetometry of Fe/Cr/Fe trilayers with biquadratic coupling. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 19LT02. | 1.3 | 0 |
| 33 | Nanostructuring of iron thin films by high flux low energy helium plasma. <i>Thin Solid Films</i> , 2017, 631, 50-56. | 0.8 | 11 |
| 34 | Chiral magnetoresistance in Pt/Co/Pt zigzag wires. <i>Applied Physics Letters</i> , 2017, 110, . | 1.5 | 13 |
| 35 | Fabrication, Detection, and Operation of a Three-Dimensional Nanomagnetic Conduit. <i>ACS Nano</i> , 2017, 11, 11066-11073. | 7.3 | 54 |
| 36 | Scanning electron microscopy with polarization analysis for multilayered chiral spin textures. <i>Applied Physics Letters</i> , 2017, 111, . | 1.5 | 9 |

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|----|---|------|-----------|
| 37 | Visible-light-promoted gas-phase water splitting using porous WO ₃ /BiVO ₄ photoanodes. <i>Electrochemistry Communications</i> , 2017, 82, 47-51. | 2.3 | 42 |
| 38 | Zigzag Domain Wall Mediated Reversal in Antiferromagnetically Coupled Layers. <i>IEEE Magnetics Letters</i> , 2017, 8, 1-4. | 0.6 | 1 |
| 39 | The electrochemistry of iron oxide thin films nanostructured by high ion flux plasma exposure. <i>Electrochimica Acta</i> , 2017, 258, 709-717. | 2.6 | 15 |
| 40 | Thickness dependence of unidirectional spin-Hall magnetoresistance in metallic bilayers. <i>Applied Physics Letters</i> , 2017, 111, . | 1.5 | 22 |
| 41 | Deterministic all-optical switching of synthetic ferrimagnets using single femtosecond laser pulses. <i>Physical Review B</i> , 2017, 96, . | 1.1 | 113 |
| 42 | Systematic layer-by-layer characterization of multilayers for three-dimensional data storage and logic. <i>Nanotechnology</i> , 2016, 27, 155203. | 1.3 | 4 |
| 43 | Magnetic Solitons in Superlattices. <i>Springer Series in Materials Science</i> , 2016, , 219-238. | 0.4 | 1 |
| 44 | Rashba-effect induced chiral magnetic domain-wall resistance. , 2015, , . | | 0 |
| 45 | A robust soliton ratchet using combined antiferromagnetic and ferromagnetic interlayer couplings. <i>Applied Physics Letters</i> , 2015, 106, 092404. | 1.5 | 5 |
| 46 | Asymmetric magnetic bubble expansion under in-plane field in Pt/Co/Pt: Effect of interface engineering. <i>Physical Review B</i> , 2015, 91, . | 1.1 | 106 |
| 47 | Thickness dependence of the interfacial Dzyaloshinskii-Moriya interaction in inversion symmetry broken systems. <i>Nature Communications</i> , 2015, 6, 7635. | 5.8 | 256 |
| 48 | Beam-Induced Fe Nanopillars as Tunable Domain-Wall Pinning Sites. <i>Advanced Functional Materials</i> , 2014, 24, 3508-3514. | 7.8 | 24 |
| 49 | Magnetic properties and interlayer coupling of epitaxial Co/Cu films on Si. <i>Journal of Applied Physics</i> , 2014, 116, 063906. | 1.1 | 4 |
| 50 | Multi-bit operations in vertical spintronic shift registers. <i>Nanotechnology</i> , 2014, 25, 105201. | 1.3 | 20 |
| 51 | Soliton propagation in micron-sized magnetic ratchet elements. <i>Applied Physics Letters</i> , 2014, 104, . | 1.5 | 9 |
| 52 | Non-magnetic control of domain-walls in ferromagnetic nano-wires with perpendicular magnetic anisotropy. , 2013, , . | | 0 |
| 53 | Magnetic states in low-pinning high-anisotropy material nanostructures suitable for dynamic imaging. <i>Physical Review B</i> , 2013, 87, . | 1.1 | 17 |
| 54 | Domain wall depinning governed by the spin-Hall effect. <i>Nature Materials</i> , 2013, 12, 299-303. | 13.3 | 546 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 55 | Magnetic ratchet for three-dimensional spintronic memory and logic. <i>Nature</i> , 2013, 493, 647-650. | 13.7 | 180 |
| 56 | DOMAIN IMAGING DURING SOLITON PROPAGATION IN A 3D MAGNETIC RATCHET. <i>Spin</i> , 2013, 03, 1340013. | 0.6 | 17 |
| 57 | Giant anomalous Hall effect in Fe-based microwires grown by focused-electron-beam-induced deposition. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 035001. | 1.3 | 24 |
| 58 | Controllable nucleation and propagation of topological magnetic solitons in CoFeB/Ru ferrimagnetic superlattices. <i>Physical Review B</i> , 2012, 86, . | 1.1 | 20 |
| 59 | Tuning the interlayer exchange coupling between single perpendicularly magnetized CoFeB layers. <i>Applied Physics Letters</i> , 2012, 100, . | 1.5 | 51 |
| 60 | Domain-wall pinning by local control of anisotropy in Pt/Co/Pt strips. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 024216. | 0.7 | 53 |
| 61 | Asymmetric Pt/Co/Pt-stack induced sign-control of current-induced magnetic domain-wall creep. <i>Applied Physics Letters</i> , 2012, 100, . | 1.5 | 32 |
| 62 | Magnetism in Co _{80-x} Fe _x B ₂₀ : Effect of crystallization. <i>Journal of Applied Physics</i> , 2011, 109, 093905. | 1.1 | 14 |
| 63 | Enhanced field-driven domain-wall motion in Pt/Co ₆₈ B ₃₂ /Pt strips. <i>Applied Physics Letters</i> , 2011, 98, . | 1.5 | 19 |
| 64 | Fe:O:C grown by focused-electron-beam-induced deposition: magnetic and electric properties. <i>Nanotechnology</i> , 2011, 22, 025302. | 1.3 | 47 |
| 65 | Precise control of domain wall injection and pinning using helium and gallium focused ion beams. <i>Journal of Applied Physics</i> , 2011, 109, . | 1.1 | 52 |
| 66 | Spin motive forces due to magnetic vortices and domain walls. <i>Physical Review B</i> , 2011, 84, . | 1.1 | 12 |
| 67 | Tunable magnetic domain wall oscillator at an anisotropy boundary. <i>Applied Physics Letters</i> , 2011, 98, 102512. | 1.5 | 17 |
| 68 | Reduced domain wall pinning in ultrathin Pt/Co _{100-x} B _x /Pt with perpendicular magnetic anisotropy. <i>Applied Physics Letters</i> , 2010, 96, . | 1.5 | 21 |
| 69 | Controlled domain-wall injection in perpendicularly magnetized strips. <i>Applied Physics Letters</i> , 2010, 96, . | 1.5 | 26 |
| 70 | Magnetization dynamics and Gilbert damping in ultrathin Co ₄₈ Fe ₃₂ B ₂₀ films with out-of-plane anisotropy. <i>Applied Physics Letters</i> , 2009, 94, . | 1.5 | 99 |
| 71 | Correlation between Magnetism and Spin-Dependent Transport in CoFeB Alloys. <i>Physical Review Letters</i> , 2009, 102, 016602. | 2.9 | 30 |
| 72 | Tunneling spin polarization and annealing of Co ₇₂ Fe ₂₀ B ₈ . <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 2012-2014. | 1.0 | 2 |