List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/299701/publications.pdf Version: 2024-02-01

		257101	264894
120	2,321	24	42
papers	citations	h-index	g-index
121	121	121	2266
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Spin Torque–Generated Magnetic Droplet Solitons. Science, 2013, 339, 1295-1298.	6.0	237
2	XRD cation distribution and magnetic properties of mesoporous Zn-substituted CuFe2O4. Ceramics International, 2014, 40, 3619-3625.	2.3	102
3	Mutually synchronized bottom-up multi-nanocontact spin–torque oscillators. Nature Communications, 2013, 4, 2731.	5.8	98
4	Spin-Wave-Mode Coexistence on the Nanoscale: A Consequence of the Oersted-Field-Induced Asymmetric Energy Landscape. Physical Review Letters, 2013, 110, 257202.	2.9	98
5	[Co/Pd]–NiFe exchange springs with tunable magnetization tilt angle. Applied Physics Letters, 2011, 98, 172502.	1.5	82
6	Plasmonic improvement photoresponse of vertical-MoS2 nanostructure photodetector by Au nanoparticles. Applied Surface Science, 2019, 490, 165-171.	3.1	79
7	High frequency operation of a spinâ€ŧorque oscillator at low field. Physica Status Solidi - Rapid Research Letters, 2011, 5, 432-434.	1.2	75
8	Confined Dissipative Droplet Solitons in Spin-Valve Nanowires with Perpendicular Magnetic Anisotropy. Physical Review Letters, 2014, 112, 047201.	2.9	53
9	Spin transfer torque generated magnetic droplet solitons (invited). Journal of Applied Physics, 2014, 115, .	1.1	47
10	Magnetic droplet nucleation boundary in orthogonal spin-torque nano-oscillators. Nature Communications, 2016, 7, 11209.	5.8	46
11	Three-dimensional graphene foam as a conductive scaffold for cardiac tissue engineering. Journal of Biomaterials Applications, 2019, 34, 74-85.	1.2	41
12	Nanostructured MnGa films on Si/SiO2 with 20.5 kOe room temperature coercivity. Journal of Applied Physics, 2011, 110, .	1.1	40
13	Role of boron diffusion in CoFeB/MgO magnetic tunnel junctions. Physical Review B, 2015, 91, . Facile, scalable and transfer free vertical- <mml:math< td=""><td>1.1</td><td>40</td></mml:math<>	1.1	40
14	xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"> <mml:mrow><mml:msub><mml:mi mathvariant="normal">MoS<mml:mn>2</mml:mn></mml:mi </mml:msub></mml:mrow> nanostructures grown on Au/ <mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td>3.1</td><td>37</td></mml:math>	3.1	37
15	altimg="si2.gif" overflow="scroll"> <mml:mrow><mml:msub><mml:mi mathvariant="normal">SiOMagnetic droplet solitons in orthogonal nano-contact spin torque oscillators. Physica B: Condensed Matter, 2014, 435, 84-87.</mml:mi </mml:msub></mml:mrow>	1.3	35
16	Parametric autoexcitation of magnetic droplet soliton perimeter modes. Physical Review B, 2017, 95, .	1.1	32
17	Tunable bandgap and spin-orbit coupling by composition control of MoS 2 and MoO x (x = 2 and 3) thin film compounds. Materials and Design, 2017, 122, 220-225.	3.3	32
18	Tunable spin configuration in [Co/Ni]-NiFe spring magnets. Journal Physics D: Applied Physics, 2013, 46, 125004.	1.3	31

#	Article	IF	CITATIONS
19	Dependence of the colored frequency noise in spin torque oscillators on current and magnetic field. Applied Physics Letters, 2014, 104, 092405.	1.5	28
20	Magnetic properties of crystalline mesoporous Zn-substituted copper ferrite synthesized under nanoconfinement in silica matrix. Microporous and Mesoporous Materials, 2014, 190, 346-355.	2.2	27
21	High saturation magnetization, low coercivity and fine YIG nanoparticles prepared by modifying co-precipitation method. Journal of Magnetism and Magnetic Materials, 2019, 476, 355-360.	1.0	26
22	Temperature dependence of magnetoimpedance in annealed Co-based ribbons. Journal of Non-Crystalline Solids, 2005, 351, 2983-2986.	1.5	25
23	Au/NiFe magnetoplasmonics: Large enhancement of magneto-optical kerr effect for magnetic field sensors and memories. Electronic Materials Letters, 2015, 11, 440-446.	1.0	25
24	Structural characterization and magnetoimpedance effect in amorphous and nanocrystalline AlGe-substituted FeSiBNbCu ribbons. Journal of Magnetism and Magnetic Materials, 2007, 312, 35-42.	1.0	24
25	Magnetic structure and anisotropy of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mo>[Physical Review B, 2015, 91, .</mml:mo></mml:mrow></mml:msub></mml:mrow></mml:math 	nl:max <mr< td=""><td>nl:¤#ow><m< td=""></m<></td></mr<>	nl :¤ #ow> <m< td=""></m<>
26	Merging droplets in double nanocontact spin torque oscillators. Physical Review B, 2016, 93, .	1.1	24
27	[Co/Pd]4–Co–Pd–NiFe spring magnets with highly tunable and uniform magnetization tilt angles. Journal of Magnetism and Magnetic Materials, 2012, 324, 3929-3932.	1.0	23
28	Current induced vortices in multi-nanocontact spin-torque devices. Journal of Applied Physics, 2011, 109, .	1.1	22
29	Depth-Dependent Magnetization Profiles of Hybrid Exchange Springs. Physical Review Applied, 2014, 2, .	1.5	22
30	Asymmetric magnetoimpedance effect in CoFeSiB amorphous ribbons by combination of field and current annealing for sensor applications. Superlattices and Microstructures, 2016, 96, 191-197.	1.4	22
31	High-performance porphyrin-like graphene quantum dots for immuno-sensing of Salmonella typhi. Biosensors and Bioelectronics, 2021, 188, 113334.	5.3	22
32	Reversal mode instability and magnetoresistance in perpendicular (Co/Pd)/Cu/(Co/Ni) pseudo-spin-valves. Applied Physics Letters, 2013, 103, .	1.5	21
33	Recent Advances in Nanocontact Spin-Torque Oscillators. IEEE Transactions on Magnetics, 2014, 50, 1-7.	1.2	21
34	Magnetic droplet solitons in orthogonal spin valves. Low Temperature Physics, 2015, 41, 833-837.	0.2	21
35	Temperature-dependent interlayer coupling in Ni/Co perpendicular pseudo-spin-valve structures. Physical Review B, 2011, 84, .	1.1	20
36	Magnetoimpedance exchange coupling in different magnetic strength thin layers electrodeposited on Co-based magnetic ribbons. Journal Physics D: Applied Physics, 2017, 50, 155001.	1.3	20

#	Article	IF	CITATIONS
37	ZnO thin layer/Fe-based ribbon/ZnO thin layer sandwich structure: Introduction of a new GMI optimization method. Journal of Magnetism and Magnetic Materials, 2020, 493, 165697.	1.0	20
38	Magnetoimpedance effect in current annealed Co-based amorphous wires. Journal of Magnetism and Magnetic Materials, 2006, 304, e706-e708.	1.0	19
39	Effect of magnetic field–current annealing on the magnetoimpedance of Co-based ribbons. Journal of Non-Crystalline Solids, 2007, 353, 899-901.	1.5	19
40	Effect of nanoconfinement on the formation, structural transition and magnetic behavior of mesoporous copper ferrite. Journal of Alloys and Compounds, 2014, 598, 191-197.	2.8	18
41	Direct observation of magnetization dynamics generated by nanocontact spin-torque vortex oscillators. Physical Review B, 2016, 94, .	1.1	18
42	Extraordinary magneto-optical Kerr effect via MoS ₂ monolayer in Au/Py/MoS ₂ plasmonic cavity. RSC Advances, 2016, 6, 106591-106599.	1.7	17
43	Order of magnitude improvement of nano-contact spin torque nano-oscillator performance. Nanoscale, 2017, 9, 1896-1900.	2.8	17
44	Magnetic droplet soliton nucleation in oblique fields. Physical Review B, 2018, 97, .	1.1	17
45	Study of magnetoimpedance effect of Co-based amorphous ribbons after current annealing at various kinds of ambient pressure. Journal of Non-Crystalline Solids, 2009, 355, 2653-2656.	1.5	16
46	Microwave Signal Generation in Single-Layer Nano-Contact Spin Torque Oscillators. IEEE Transactions on Magnetics, 2013, 49, 4331-4334.	1.2	15
47	Magnetic graphene/Ni-nano-crystal hybrid for small field magnetoresistive effect synthesized via electrochemical exfoliation/deposition technique. Journal of Materials Science: Materials in Electronics, 2018, 29, 4171-4178.	1.1	15
48	Sulfurization of planar MoO3 optical crystals: Enhanced Raman response and surface porosity. Materials Research Bulletin, 2019, 118, 110527.	2.7	15
49	Pseudo Spin Valves Using a (1Â1Â2)-Textured D0\$_{22}\$ Mn\$_{2.3-2.4}\$Ga Fixed Layer. IEEE Magnetics Letters, 2010, 1, 2500104-2500104.	0.6	14
50	Promising memristive behavior in MoS2–MoO2–MoO3 scalable composite thin films. Journal of Alloys and Compounds, 2020, 835, 155291.	2.8	14
51	Structural Characterization and Magnetoimpedance Effect of Current Annealed Co-Based Amorphous Ribbons at Different Ambient. Journal of Superconductivity and Novel Magnetism, 2015, 28, 265-269.	0.8	13
52	Electrophoretic deposition of graphene oxide on magnetic ribbon: Toward high sensitive and selectable magnetoimpedance response. Applied Surface Science, 2018, 447, 423-429.	3.1	13
53	Simple One‣tep Fabrication of Semiconductive Lateral Heterostructures Using Bipolar Electrodeposition. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800418.	1.2	13
54	Au/NiFe/M(Au, MoS2, graphene) trilayer magnetoplasmonics DNA-hybridized sensors with high record of sensitivity. Journal of Biomedical Optics, 2017, 22, 1.	1.4	13

#	Article	IF	CITATIONS
55	Magnetoelastic coupling enabled tunability of magnon spin current generation in two-dimensional antiferromagnets. Physical Review B, 2021, 104, .	1.1	13
56	Magnetoimpedance effect in laser annealed amorphous ribbons. Journal of Magnetism and Magnetic Materials, 2006, 304, e633-e635.	1.0	12
57	A Nonvolatile Spintronic Memory Element with a Continuum of Resistance States. Advanced Functional Materials, 2013, 23, 1919-1922.	7.8	12
58	Superharmonic injection locking of nanocontact spin-torque vortex oscillators. Physical Review B, 2016, 94, .	1.1	12
59	Symmetry enhanced spin-Nernst effect in honeycomb antiferromagnetic transition metal trichalcogenide monolayers. Physical Review B, 2021, 103, .	1.1	12
60	Magnetoimpedance effect in surface pinned nanostructured Fe-based alloys. Journal of Non-Crystalline Solids, 2007, 353, 896-898.	1.5	11
61	Thick Double-Biased IrMn/NiFe/IrMn Planar Hall Effect Bridge Sensors. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	11
62	Magneto-optical response of Cu/NiFe/Cu nanostructure under surface plasmon resonance. Journal of Magnetism and Magnetic Materials, 2016, 420, 258-262.	1.0	11
63	Optimization of Magneto-Optical Kerr Effect in Cu/Fe/Cu Nano-structure. Journal of Superconductivity and Novel Magnetism, 2016, 29, 1517-1523.	0.8	11
64	lmaging magnetisation dynamics in nano-contact spin-torque vortex oscillators exhibiting gyrotropic mode splitting. Journal Physics D: Applied Physics, 2017, 50, 164003.	1.3	11
65	High-Voltage, High-Current Electrical Switching Discharge Synthesis of ZnO Nanorods: A New Method toward Rapid and Highly Tunable Synthesis of Oxide Semiconductors in Open Air and Water for Optoelectronic Applications. ACS Applied Materials & Interfaces, 2021, 13, 46951-46966.	4.0	11
66	Spin-orbit-torque driven magnetoimpedance in Pt-layer/magnetic-ribbon heterostructures. Applied Physics Letters, 2017, 111, .	1.5	10
67	Miniaturized Optoelectronic SPR Sensor Based on Integrated Planar Waveguide and MIM Hot-Electron Photodetector. IEEE Transactions on Electron Devices, 2019, 66, 5215-5220.	1.6	10
68	Spin-Torque Oscillator in an Electromagnet Package. IEEE Transactions on Magnetics, 2012, 48, 4378-4381.	1.2	9
69	The effect of mechanical polishing on current annealed Co ₆₇ Fe ₅ Si ₁₅ B ₁₃ amorphous ribbons: magnetoimpedance response. EPJ Applied Physics, 2014, 65, 10601.	0.3	9
70	Magnetoimpedance and Field Sensitivity of CoFeSiB Amorphous Ribbons under Applied Tensile Stress. Journal of Superconductivity and Novel Magnetism, 2015, 28, 2059-2062.	0.8	9
71	Facile synthesis of water-stable iron intercalated multi layered graphene nanocomposite with large magnetic moments as superior water pollutant remediators. Synthetic Metals, 2019, 255, 116105.	2.1	9
72	Effect of YIG nanoparticle size and clustering in proximity-induced magnetism in graphene/YIG composite probed with magnetoimpedance sensors: Towards improved functionality, sensitivity and proximity detection. Composites Part B: Engineering, 2019, 173, 106992.	5.9	9

#	Article	IF	CITATIONS
73	Controlling Magnetization of Gr/Ni Composite for Application in High-Performance Magnetic Sensors. ACS Applied Electronic Materials, 2019, 1, 2502-2513.	2.0	9
74	High-sensitive optoelectronic SPR biosensor based on Fano resonance in the integrated MIM junction and optical layers. Optics Communications, 2020, 477, 126323.	1.0	9
75	Chiral excitations of magnetic droplet solitons driven by their own inertia. Physical Review B, 2020, 101, .	1.1	9
76	Low defect and high electrical conductivity of graphene through plasma graphene healing treatment monitored with in situ optical emission spectroscopy. Scientific Reports, 2021, 11, 20334.	1.6	9
77	The influence of laser annealing in the presence of longitudinal weak magnetic field on asymmetrical magnetoimpedance response of CoFeSiB amorphous ribbons. Journal of Non-Crystalline Solids, 2008, 354, 5150-5152.	1.5	8
78	Thermoanalytical study of siloxane-polyurethane thermosets: Kinetic deconvolution of overlapping heterogeneous curing reactions. Progress in Organic Coatings, 2017, 112, 234-243.	1.9	8
79	Voltage-driven magneto-optical Kerr effect in a glass/Au/NiFe/dielectric/WS_2magneto-plasmonic structure. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 2436.	0.9	8
80	Designing magnetic droplet soliton nucleation employing spin polarizer. Nanotechnology, 2018, 29, 155402.	1.3	8
81	Electrical and magneto-optical characterization of Py/MoS2 bilayer: A facile growth of magnetic-metal/semiconductor heterostructure. Materials Letters, 2020, 265, 127454.	1.3	8
82	Magnetic behaviors of amorphous Fe78Si9B13 thin films prepared by pulsed laser deposition. Journal of Non-Crystalline Solids, 2008, 354, 5178-5180.	1.5	7
83	Design of a double core linear magnetometer based on asymmetric magnetoimpedance effect in nanostructured Finemet ribbons. Journal of Non-Crystalline Solids, 2008, 354, 5175-5177.	1.5	7
84	Fine-tunable plasma nano-machining for fabrication of 3D hollow nanostructures: SERS application. Nanotechnology, 2017, 28, 315301.	1.3	7
85	Metal/metal-oxide thin layer heterostructure by laser treatment for memristor application. Materials Letters, 2020, 261, 127094.	1.3	7
86	Propagating Magnetic Droplet Solitons as Moveable Nanoscale Spin-Wave Sources with Tunable Direction of Emission. Physical Review Applied, 2020, 13, .	1.5	7
87	Nonlinear Optical Properties of Vertically-Aligned MoS2 Nanosheets. Journal of Electronic Materials, 2021, 50, 3645-3651.	1.0	7
88	Structural and magnetic study of metallo-organic YIG powder using 2-ethylhexanoate carboxylate-based precursors. Modern Physics Letters B, 2019, 33, 1950100.	1.0	6
89	Growth behavior of Cu, Ni and Cu/Ni electrodeposited microwires within porous Si. Surface and Coatings Technology, 2019, 364, 16-21.	2.2	6
90	Freezing and thawing magnetic droplet solitons. Nature Communications, 2022, 13, 2462.	5.8	6

#	Article	IF	CITATIONS
91	Effect of Microwave Annealing on the Structure and Magnetic Properties of Co-based Amorphous Ribbons. Journal of Superconductivity and Novel Magnetism, 2011, 24, 1263-1265.	0.8	5
92	Theory of the spin Hall effect in metal oxide structures. Physical Review B, 2019, 99, .	1.1	5
93	Two-dimensional graphene-plasmonic crystals for all-optical switch applications. Optical and Quantum Electronics, 2020, 52, 1.	1.5	5
94	Investigation of the Tunability of the Spin Configuration Inside Exchange Coupled Springs of Hard/Soft Magnets. IEEE Transactions on Magnetics, 2014, 50, 1-6.	1.2	4
95	Current induced multi-mode propagating spin waves in a spin transfer torque nano-contact with strong perpendicular magnetic anisotropy. Journal of Magnetism and Magnetic Materials, 2018, 450, 40-45.	1.0	4
96	Exchange bias training effect in IrMn-layer/ferromagnetic-ribbon heterostructures probed with magnetoimpedance. Superlattices and Microstructures, 2020, 147, 106710.	1.4	4
97	Morphological magnetostatic coupling in spin valves due to anisotropic self-affine interface roughness. Journal of Applied Physics, 2020, 127, 095301.	1.1	4
98	Optimization of Pt composition with magnetic thin films for magnetic field sensor application. Materials Letters, 2020, 276, 128184.	1.3	4
99	Triple mode-jumping in a spin torque oscillator. , 2013, , .		3
100	Low-current, narrow-linewidth microwave signal generation in NiMnSb based single-layer nanocontact spin-torque oscillators. Applied Physics Letters, 2016, 109, .	1.5	3
101	Magnetostatically driven domain replication in Ni/Co based perpendicular pseudo-spin-valves. Journal Physics D: Applied Physics, 2016, 49, 415004.	1.3	3
102	Fabrication and thermo-physical properties characterization of ethylene glycol—MoS2 heat exchange fluids. International Communications in Heat and Mass Transfer, 2017, 89, 185-189.	2.9	3
103	Reduction and control of permalloy thin film damping factor under microwave irradiation. Journal of Alloys and Compounds, 2017, 723, 960-966.	2.8	3
104	Facilitate Measurement of Electrochemical Reactions in Redoxâ€Based Memristors by Simply Thickening the Electrolyte Layer. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800046.	1.2	3
105	Spin Hall effect originated from fractal surface. Journal of Physics Condensed Matter, 2018, 30, 195804.	0.7	3
106	Investigation of magnetic droplet solitons using x-ray holography with extended references. Scientific Reports, 2018, 8, 11533.	1.6	3
107	Tuning exchange-dominated spin-waves using lateral current spread in nanocontact spin-torque nano-oscillators. Journal of Magnetism and Magnetic Materials, 2019, 492, 165503.	1.0	3
108	A Domain Dynamic Model Study of Magneto-impedance Sensor in the Presence of Inhomogeneous Magnetic Fields. Journal of Superconductivity and Novel Magnetism, 2021, 34, 571-580.	0.8	3

#	Article	IF	CITATIONS
109	Tuning the dynamics of magnetic droplet solitons using dipolar interactions. Physical Review B, 2021, 103, .	1.1	3
110	Observation of the Dzyaloshinskii–Moriya interaction via asymmetry in magnetization reversal. Journal Physics D: Applied Physics, 2020, 53, 465001.	1.3	3
111	Holographonics. Materials Today, 2016, 19, 368-369.	8.3	2
112	Current-driven second-harmonic domain wall resonance in ferromagnetic metal/nonmagnetic metal bilayers: A field-free method for spin Hall angle measurements. Physical Review B, 2017, 96, .	1.1	2
113	Demonstration of tunable complex refractive index of graphene covered one dimensional photonic crystals. Optical and Quantum Electronics, 2018, 50, 1.	1.5	2
114	Interface-induced negative differential resistance and memristive behavior in Gr/MoSe2 heterostructure. Journal of Materials Science: Materials in Electronics, 2022, 33, 6403-6410.	1.1	2
115	Magnetoimpedance of a ferromagnetic thin film in the presence of isotropic self-affine surface roughness cross correlations. Applied Physics A: Materials Science and Processing, 2022, 128, .	1.1	2
116	Dynamics of magnetic nano-flake vortices in Newtonian fluids. Journal of Magnetism and Magnetic Materials, 2016, 419, 547-552.	1.0	1
117	Temperature-induced coupled–decoupled transition in perpendicular pseudo spin valves. Journal Physics D: Applied Physics, 2017, 50, 115003.	1.3	1
118	Oscillation in the electrical conductivity of a thick graphene oxide membrane. Journal of Applied Physics, 2021, 129, 235105.	1.1	1
119	Ferromagnetic properties of iron-porphyrin-like structurally deformed graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 139, 115165.	1.3	1
120	Sulfur reduction in MoSO composite towards fabrication of porous structures: physical and nonlinear optical effects. Journal of Materials Science: Materials in Electronics, 2021, 32, 23624-23630.	1.1	0