

Plamen Stamenov

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

3,765
citations

159525

30
h-index

128225

60
g-index

94
all docs

94
docs citations

94
times ranked

4535
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin-orbit torque switching without an external field using interlayer exchange coupling. Nature Nanotechnology, 2016, 11, 758-762.	15.6	411
2	Magnetism in hafnium dioxide. Physical Review B, 2005, 72, .	1.1	408
3	Magnetism in dilute magnetic oxide thin films based on SnO ₂ . Physical Review B, 2006, 74, .	1.1	253
4	Ferromagnetism in defect-ridden oxides and related materials. New Journal of Physics, 2010, 12, 053025.	1.2	245
5	High spin polarization in epitaxial films of ferrimagnetic Mn ₃ Ga. Physical Review B, 2011, 83, .	1.1	245
6	Mn ₃ Ga (001): Multifunctional thin film materials for spintronics and magnetic recording. Physica Status Solidi (B): Basic Research, 2011, 248, 2338-2344.	0.7	142
7	Designing switchable polarization and magnetization at room temperature in an oxide. Nature, 2015, 525, 363-366.	13.7	122
8	Additive Manufacturing of Ti ₃ C ₂ MXene Functionalized Conductive Polymer Hydrogels for Electromagnetic Interference Shielding. Advanced Materials, 2022, 34, e2106253.	11.1	115
9	Cubic Mn ₂ Sn thin films: Crossing the Spin Gap with Ruthenium. Physical Review Letters, 2014, 112, 027201.	2.9	113
10	Giant heterogeneous magnetostriction in Fe-Ga alloys: Effect of trace element doping. Acta Materialia, 2016, 109, 177-186.	3.8	112
11	Magnetic and electronic properties of D ₂₂ -Mn ₃ Ge (001) films. Applied Physics Letters, 2012, 101, .	1.5	88
12	Magnetic, magnetotransport, and optical properties of Al-doped Zn _{0.95} Co _{0.05} O thin films. Applied Physics Letters, 2007, 90, 242508.	1.5	83
13	Site-specific order and magnetism in tetragonal Mn ₃ Ga thin films. Physical Review B, 2013, 87, .	1.1	81
14	Single pulse all-optical toggle switching of magnetization without gadolinium in the ferrimagnet Mn ₂ Ru _x Ga. Nature Communications, 2020, 11, 4444.	5.8	76
15	Sample size, position, and structure effects on magnetization measurements using second-order gradiometer pickup coils. Review of Scientific Instruments, 2006, 77, 015106.	0.6	66
16	Oriented cobalt nanowires prepared by electrodeposition in a porous membrane. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1210-1213.	1.0	63
17	The structural, magnetic and microwave properties of spherical and flake shaped carbonyl iron particles as thin multilayer microwave absorbers. Journal of Magnetism and Magnetic Materials, 2017, 428, 28-35.	1.0	62
18	Surface magnetism of strontium titanate. Journal of Physics Condensed Matter, 2016, 28, 485001.	0.7	61

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37	Ultrafast Double Pulse All-Optical Reswitching of a Ferrimagnet. Physical Review Letters, 2021, 126, 177202.	2.9	21
38	Magnetocrystalline anisotropy and exchange probed by high-field anomalous Hall effect in fully compensated half-metallic Mn_2Te thin films. Physical Review B, 2018, 98, .	1.1	20
39	Magnetic and structural properties of Co-doped ZnO thin films. Journal of Magnetism and Magnetic Materials, 2007, 310, 2087-2088.	1.0	18
40	A New Highly Anisotropic Rh ϵ -Based Heusler Compound for Magnetic Recording. Advanced Materials, 2020, 32, 2004331.	11.1	18
41	Antiferromagnetic single-layer spin-orbit torque oscillators. Physical Review B, 2019, 99, .	1.1	17
42	Magnetism and Faraday Rotation in Oxygen-Deficient Polycrystalline and Single-Crystal Iron-Substituted Strontium Titanate. Physical Review Applied, 2017, 7, .	1.5	16
43	Structure, site-specific magnetism, and magnetotransport properties of epitaxial Mn_2Te thin. Physical Review B, 2017, 96, .	1.1	16
44	Highly Conductive Networks of Silver Nanosheets. Small, 2022, 18, e2105996.	5.2	16
45	Dependence of charge carrier injection on the interface energy barrier in short-channel polymeric field effect transistors. Applied Physics Letters, 2012, 100, .	1.5	15
46	Vector vibrating-sample magnetometer with permanent magnet flux source. Journal of Applied Physics, 2006, 99, 08D912.	1.1	14
47	High Fermi-level spin polarization in the Bi_2Te_3 family of topological insulators: A point contact Andreev reflec. Physical Review B, 2016, 94, .	1.1	14
48	Charge injection, transport and localization in rubrene. Synthetic Metals, 2011, 161, 563-569.	2.1	11
49	Magnetization dynamics of the compensated ferrimagnet Mn_2Te . Physical Review B, 2019, 100, .	1.1	11
50	Point Contact Andreev Reflection from Erbium: The role of external magnetic field and the sign of the spin polarization. Journal of Applied Physics, 2012, 111, 07C519.	1.1	10
51	Magnetization processes in micron-scale (CoFe/Pt) $_n$ multilayers with perpendicular anisotropy: First-order reversal curves measured by extraordinary Hall effect. Journal of Applied Physics, 2012, 111, 07B538.	1.1	10
52	Point contact Andreev reflection from semimetallic bismuth—The roles of the minority carriers and the large spin-orbit coupling. Journal of Applied Physics, 2013, 113, .	1.1	10
53	Improved magnetic performance of Cobalt-based ribbons by nanocrystallization through magnetic annealing. Journal of Magnetism and Magnetic Materials, 2020, 503, 166630.	1.0	9
54	Magnetic order and magnetotransport in half-metallic ferrimagnetic Mn_2Te thin films. Physical Review B, 2021, 104, .	1.1	9

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73	Note: Direct piezoelectric effect microscopy. Review of Scientific Instruments, 2015, 86, 076102.	0.6	3
74	Multiple contacts investigation of single silicon nanowires with the active voltage contrast scanning electron microscopy technique. Measurement Science and Technology, 2019, 30, 017002.	1.4	3
75	Spin liquids and spin glasses in Mn-based alloys with the cubic A13 ($\hat{I}^2\text{Mn}$) structure. Journal of Magnetism and Magnetic Materials, 2020, 501, 166429.	1.0	3
76	Modeling of Electronic Transport through Metal/Polymer Interfaces in Thin Film Transistors. ISRN Electronics, 2013, 2013, 1-6.	1.1	3
77	SQUID-detected FMR: Resonance in single crystalline and polycrystalline yttrium iron garnet. Review of Scientific Instruments, 2018, 89, 044701.	0.6	2
78	Hall Effect Measurements in Rotating Magnetic Field on Sub-30-nm Silicon Nanowires Fabricated by a Top-Down Approach. IEEE Transactions on Electron Devices, 2020, 67, 5201-5208.	1.6	2
79	CALPHAD-assisted development of in-situ nanocrystallised melt-spun Co-Fe-B alloy with high B (1.57ÅT). Journal of Alloys and Compounds, 2021, 877, 160194.	2.8	2
80	Growth of <i>c</i> -axis-oriented aluminum nitride thin films onto different substrates and buffer layers. Surface and Interface Analysis, 2015, 47, 447-453.	0.8	1
81	4D full-vector radio frequency complex magnetic susceptibility mapping. Near-field imaging of RFID tags. AIP Advances, 2019, 9, .	0.6	1
82	Thickness-Dependent THz Emission From Ultrathin Ferrimagnetic Mn _{3-x} Ga Films. , 2019, , .		1
83	Strategies for Fabricating Nanogap Single-Crystal Organic Transistors. ISRN Nanotechnology, 2012, 2012, 1-6.	1.3	1
84	On the direct magnetic detection of spin injection and adiabatic depolarization in aluminum. Journal of Magnetism and Magnetic Materials, 2008, 320, 403-406.	1.0	0
85	Schottky barriers of rare-earth transition-metal intermetallics on silicon. Journal of Physics: Conference Series, 2010, 200, 072094.	0.3	0
86	High-field anisotropy of the tunnelling magnetoresistance of CoFeB/MgO/CoFeB junctions. Journal of Magnetism and Magnetic Materials, 2010, 322, 1413-1415.	1.0	0
87	Fermi Level Engineering of MnRuxGa Thin Films. , 2018, , .		0
88	An apparatus and methodology for high-power SQUID-detected ferromagnetic resonance measurements. AIP Advances, 2019, 9, 035152.	0.6	0
89	Light Manipulation with Plasmonic Structures using Phase Change Materials. , 2019, , .		0
90	Tuning Metasurfaces with Phase Change Materials. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
91	Magnetism of the Elements. , 2021, , 1-34.		0
92	Magnetism of the Elements. , 2021, , 659-692.		0
93	Stability of Mn ₂ Ru Ga-based multilayer stacks. Thin Solid Films, 2022, 745, 139104.	0.8	0