

Plamen Stamenov

List of Publications by Year in descending order

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93
papers

3,765
citations

182225

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docs citations

94
times ranked

5024
citing authors

#	ARTICLE	IF	CITATIONS
1	Additive Manufacturing of Ti_3C_2 -MXene-Functionalized Conductive Polymer Hydrogels for Electromagnetic Interference Shielding. <i>Advanced Materials</i> , 2022, 34, e2106253.	11.1	115
2	Stability of Mn ₂ Ru Ga-based multilayer stacks. <i>Thin Solid Films</i> , 2022, 745, 139104.	0.8	0
3	Highly Conductive Networks of Silver Nanosheets. <i>Small</i> , 2022, 18, e2105996.	5.2	16
4	Single-pulse all-optical partial switching in amorphous Dy _x Co _{1-x} and Tb _x Co _{1-x} with random anisotropy. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	7
5	High-frequency power loss mechanisms in ultra-thin amorphous ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 519, 167469.	1.0	7
6	Magnetism of the Elements. , 2021, , 1-34.		0
7	Sub-picosecond exchange relaxation in the compensated ferrimagnet Mn ₂ Ru x Ga. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 135804.	0.7	7
8	Spin transfer torque in MnB -based ferrimagnetic tunnel junctions from first principles. <i>Physical Review B</i> , 2021, 103, .		
9	Magnetic reversal and pinning in a perpendicular zero-moment half-metal. <i>Physical Review Materials</i> , 2021, 5, .	0.9	5
10	Ultrafast Double Pulse All-Optical Reswitching of a Ferrimagnet. <i>Physical Review Letters</i> , 2021, 126, 177202.	2.9	21
11	Magnetic order and magnetotransport in half-metallic ferrimagnetic $Mn_2Ru_1-xGa_x$ thin films. <i>Physical Review B</i> , 2021, 104, .		
12	CALPHAD-assisted development of in-situ nanocrystallised melt-spun Co-Fe-B alloy with high B (1.57ÅT). <i>Journal of Alloys and Compounds</i> , 2021, 877, 160194.	2.8	2
13	Spin polarization and magnetotransport properties of systematically disordered $Mn_2Ru_1-xGa_x$ thin films. <i>Physical Review B</i> , 2021, 104, .		
14	Magnetism of the Elements. , 2021, , 659-692.		0
15	Hall Effect Measurements in Rotating Magnetic Field on Sub-30-nm Silicon Nanowires Fabricated by a Top-Down Approach. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 5201-5208.	1.6	2
16	A New Highly Anisotropic Rh-Based Heusler Compound for Magnetic Recording. <i>Advanced Materials</i> , 2020, 32, 2004331.	11.1	18
17	Single pulse all-optical toggle switching of magnetization without gadolinium in the ferrimagnet Mn ₂ Ru _x Ga. <i>Nature Communications</i> , 2020, 11, 4444.	5.8	76
18	Improved magnetic performance of Cobalt-based ribbons by nanocrystallization through magnetic annealing. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 503, 166630.	1.0	9

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37	Joule Heating Effect on Field-Free Magnetization Switching by Spin-Orbit Torque in Exchange-Biased Systems. <i>Physical Review Applied</i> , 2017, 7, .	1.5	48
38	The structural, magnetic and microwave properties of spherical and flake shaped carbonyl iron particles as thin multilayer microwave absorbers. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 428, 28-35.	1.0	62
39	Room Temperature Magnetically Ordered Polar Corundum GaFeO_3 Displaying Magnetolectric Coupling. <i>Journal of the American Chemical Society</i> , 2017, 139, 1520-1531.	6.6	34
40	Structure, site-specific magnetism, and magnetotransport properties of epitaxial D_{22}O thin. <i>Physical Review B</i> , 2017, 96, .	1.1	16
41	Use of slits of defined width in metal layers within ID-1 cards, as reactive couplers for near-field passive RFID at 13.56 MHz. , 2016, , .		4
42	The zero-moment half metal: How could it change spin electronics?. <i>AIP Advances</i> , 2016, 6, .	0.6	22
43	Tunnelling magnetoresistance of the half-metallic compensated ferrimagnet $\text{Mn}_2\text{Ru}_x\text{Ga}$. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	32
44	Surface magnetism of strontium titanate. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 485001.	0.7	61
45	High Fermi-level spin polarization in the Bi_2Te_3 family of topological insulators: A point contact Andreev reflec. <i>Physical Review B</i> , 2016, 94, .		12
46	Spin-orbit torque switching without an external field using interlayer exchange coupling. <i>Nature Nanotechnology</i> , 2016, 11, 758-762.	15.6	411
47	Giant heterogeneous magnetostriction in Fe-Ga alloys: Effect of trace element doping. <i>Acta Materialia</i> , 2016, 109, 177-186.	3.8	112
48	Note: Direct piezoelectric effect microscopy. <i>Review of Scientific Instruments</i> , 2015, 86, 076102.	0.6	3
49	Growth of c -axis-oriented aluminum nitride thin films onto different substrates and buffer layers. <i>Surface and Interface Analysis</i> , 2015, 47, 447-453.	0.8	1
50	Giant spontaneous Hall effect in zero-moment $\text{Mn}_2\text{Ru}_x\text{Ga}$. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	35
51	Site-specific magnetism of half-metallic $\text{Mn}_2\text{Ru}_x\text{Ga}$ thin films determined by x-ray absorption spectroscopy. <i>Physical Review B</i> , 2015, 91, .	1.1	36
52	Designing switchable polarization and magnetization at room temperature in an oxide. <i>Nature</i> , 2015, 525, 363-366.	18.7	122
53	Magnetic, transport, and structural properties of SrRuO_3 thin films. <i>Journal of Applied Physics</i> , 2014, 115, 17C735.	1.1	8
54	Cubic Mn_2O_7 Films: Crossing the Spin Gap with Ruthenium. <i>Physical Review Letters</i> , 2014, 112, 027201.	2.9	13

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55	High field magnetotransport and point contact Andreev reflection measurements on CuCr ₂ Se ₄ and CuCr ₂ Se ₃ Br ₂ Degenerate magnetic semiconductor single crystals. Journal of Applied Physics, 2014, 115, 17C717.	1.1	4
56	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
57	Site-specific order and magnetism in tetragonal Mn ₃ Ga thin films. Physical Review B, 2013, 87, .	1.1	81
58	Modeling of Electronic Transport through Metal/Polymer Interfaces in Thin Film Transistors. ISRN Electronics, 2013, 2013, 1-6.	1.1	3
59	Exchange-biased magnetic tunnel junctions with antiferromagnetic $\hat{\mu}$ -Mn ₃ Ga. Applied Physics Letters, 2012, 101, .	1.5	37
60	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
61	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
62	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
63	Magnetic and electronic properties of D ₂₂ -Mn ₃ Ge (001) films. Applied Physics Letters, 2012, 101, .	1.5	88
64	Electron and spin transport studies of gated lateral organic devices. Journal of Applied Physics, 2012, 112, .	1.1	8
65	Dynamic response of ammonia sensors constructed from polyaniline nanofibre films with varying morphology. Sensors and Actuators B: Chemical, 2012, 161, 989-999.	4.0	49
66	Strategies for Fabricating Nanogap Single-Crystal Organic Transistors. ISRN Nanotechnology, 2012, 2012, 1-6.	1.3	1
67	Influence of an Au capping layer on the magnetic properties of CoPt nanowires. Applied Physics Letters, 2011, 98, .	1.5	7
68	Charge injection, transport and localization in rubrene. Synthetic Metals, 2011, 161, 563-569.	2.1	11
69	Fermi level spin polarization of polycrystalline thulium by point contact Andreev reflection spectroscopy. Journal of Applied Physics, 2011, 109, .	1.1	6
70	Mn ₃ As ₂ Ga (001): Multifunctional thin film materials for spintronics and magnetic recording. Physica Status Solidi (B): Basic Research, 2011, 248, 2338-2344.	0.7	142
71	High spin polarization in epitaxial films of ferrimagnetic Mn ₃ Ga. Physical Review B, 2011, 83, .	1.1	245
72	Schottky barriers of rare-earth transition-metal intermetallics on silicon. Journal of Physics: Conference Series, 2010, 200, 072094.	0.3	0

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73	Magnetization Process in Dilute Magnetic Oxides. IEEE Transactions on Magnetism, 2010, 46, 2501-2503.	1.2	54
74	Magnetic susceptibility of Al ₃ powder, pure and Al-doped 8-hydroxyquinoline. Journal of Magnetism and Magnetic Materials, 2010, 322, 1255-1258.	1.0	6
75	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
76	Magnetoresistance of CuCrO ₂ -based delafossite films. Journal of Physics: Conference Series, 2010, 200, 052021.	0.3	27
77	Ferromagnetism in defect-ridden oxides and related materials. New Journal of Physics, 2010, 12, 053025.	1.2	245
78	Magnetic stabilization and vorticity in submillimeter paramagnetic liquid tubes. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8811-8817.	3.3	47
79	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
80	Room temperature ferromagnetism in Mn- and Fe-doped indium tin oxide thin films. Journal of Applied Physics, 2008, 103, 07D135.	1.1	29
81	Magnetic and structural properties of Co-doped ZnO thin films. Journal of Magnetism and Magnetic Materials, 2007, 310, 2087-2088.	1.0	18
82	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
83	Magnetism in dilute magnetic oxide thin films based on SnO ₂ . Physical Review B, 2006, 74, .	1.1	253
84	Magnetization of electrodeposited nickel: Role of interstitial carbon. Journal of Applied Physics, 2006, 99, 08J301.	1.1	6
85	Magnetoresistance of Co-doped ZnO thin films. Journal of Applied Physics, 2006, 99, 08M124.	1.1	34
86	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
87	Vector vibrating-sample magnetometer with permanent magnet flux source. Journal of Applied Physics, 2006, 99, 08D912.	1.1	14
88	Magnetic susceptibility of carbon ¹³ experiment and theory. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 279-285.	1.0	41
89	Oriented cobalt nanowires prepared by electrodeposition in a porous membrane. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1210-1213.	1.0	63
90	Anisotropy of the magnetization of a dilute magnetic oxide. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1405-1407.	1.0	38

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91	Shubnikovâ€™de Haas and Hall quantum oscillations in graphite. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1402-1404.	1.0	7
92	Magnetism in hafnium dioxide. Physical Review B, 2005, 72, .	1.1	408
93	Structural distortions and charge/orbital ordering in Bi0.25Ho0.25Ca0.5MnO3. Physica B: Condensed Matter, 2004, 350, E13-E17.	1.3	5