Felipe Bohn

List of Publications by Year in descending order

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96 papers	1,751 citations	304701 22 h-index	330122 37 g-index
96 all docs	96 docs citations	96 times ranked	1638 citing authors

#	Article	IF	Citations
1	Unraveling the role of magnetic anisotropy on the thermoelectric response: a theoretical and experimental approach. Journal Physics D: Applied Physics, 2022, 55, 025001.	2.8	3
2	Spin pumping contribution to the magnetization damping in Tm3Fe5O12/W bilayers. Journal of Magnetism and Magnetic Materials, 2022, 543, 168630.	2.3	2
3	Disclosing the role of solidification dynamics on the structural features, magnetic properties and dynamic magnetic behavior of a NiMnSn Heusler alloy. MRS Communications, 2022, 12, 62-67.	1.8	4
4	FexNi(1-x) coatings electrodeposited from choline chloride-urea mixture: Magnetic and electrocatalytic properties for water electrolysis. Materials Chemistry and Physics, 2022, 279, 125738.	4.0	7
5	Assessing the relaxation mechanisms contributions on magnetoimpedance effect in YIG/W bilayers. Journal Physics D: Applied Physics, 2022, 55, 215003.	2.8	0
6	High frequency dielectric characterization of graphene doped flexible ceramics multilayers. Ceramics International, 2022, , .	4.8	1
7	Dynamic magnetic properties of Co<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e865" altimg="si6.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mi mathvariant="bold">2</mml:mi></mml:mrow></mml:msub></mml:math>FeAl/IrMn bilayers. Journal of Magnetism and Magnetic Materials, 2022, 560, 169618.	2.3	4
8	Magnetic zeolite composites: Classification, synthesis routes, and technological applications. Journal of Magnetism and Magnetic Materials, 2022, 560, 169651.	2.3	27
9	Feâ€“Co coatings electrodeposited from eutectic mixture of choline chloride-urea: Physical characterizations and evaluation as electrocatalysts for the hydrogen evolution reaction. Journal of Alloys and Compounds, 2021, 851, 156330.	5.5	10
10	Improving the thermomechanical and magnetic properties of CuMnAl Heusler alloy by TiB doping. Journal of Materials Science: Materials in Electronics, 2021, 32, 1369-1378.	2.2	5
11	Maximum entropy in the dimensional transition of the magnetic domain wall dynamics. Physica A: Statistical Mechanics and Its Applications, 2021, 568, 125730.	2.6	4
12	Dynamic magnetic response of exchange-biased <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si23.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">Co</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:mm nanostructures. Materials Letters, 2021, 291, 129518.	2.6	2
13	Feasibility of Developing a Heusler NiMnSn Alloy via Induction Casting Without Controlled Atmosphere. MRS Communications, 2021, 11, 336-341.	1.8	2
14	Longitudinal spin Seebeck effect and anomalous Nernst effect in CoFeB/non-magnetic metal bilayers. Journal of Magnetism and Magnetic Materials, 2021, 527, 167778.	2.3	6
15	Magnetic nanoparticles hyperthermia in a non-adiabatic and radiating process. Scientific Reports, 2021, 11, 11867.	3.3	15
16	Co2FeAl Heusler alloy onto amorphous TiO2 layer: Exploring the quasi-static and dynamic magnetic properties. Journal of Physics and Chemistry of Solids, 2021, 154, 110088.	4.0	3
17	Tuning structural, magnetic, electrical, and dielectric properties of MgFe2O4 synthesized by sol-gel followed by heat treatment. Journal of Physics and Chemistry of Solids, 2021, 154, 110051.	4.0	31
18	Improving the Room-Temperature Ferromagnetism in ZnO and Low-Doped ZnO:Ag Films Using GLAD Sputtering. Materials, 2021, 14, 5337.	2.9	1

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19	Directional Field-Dependence of Magnetoimpedance Effect on Integrated YIG/Pt-Stripline System. Sensors, 2021, 21, 6145.	3.8	6
20	CoFe2O4@BiFeO3 core/shell nanoparticles: Synthesis, characterization, and fingerprints of the spin disorder. Journal of Alloys and Compounds, 2021, 889, 161650.	5.5	10
21	Observation of quasi-diamagnetism and a transition from negative to positive in the exchange bias of a NiMnIn Heusler alloy. Journal of Magnetism and Magnetic Materials, 2020, 493, 165691.	2.3	6
22	Characterization and photocatalytic application of Ce4+, Co2+, Mn2+ and Ni2+ doped Fe3O4 magnetic nanoparticles obtained by the co-precipitation method. Materials Chemistry and Physics, 2020, 242, 122489.	4.0	27
23	Magnetic properties of Ni-doped Mo2C produced by fixed bed reactor. Materials Letters, 2020, 273, 127916.	2.6	7
24	Magnetic Response Dependence of ZnO Based Thin Films on Ag Doping and Processing Architecture. Materials, 2020, 13, 2907.	2.9	3
25	Effects of the Bi3+ substitution on the structural, vibrational, and magnetic properties of bismuth layer-structured ferroelectrics. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	8
26	Waiting-time statistics in magnetic systems. Scientific Reports, 2020, 10, 9692.	3.3	3
27	Modulating the Spin Seebeck Effect in Co2FeAl Heusler Alloy for Sensor Applications. Sensors, 2020, 20, 1387.	3.8	14
28	High-frequency magnetoimpedance effect in meander-line trilayered films. Journal of Magnetism and Magnetic Materials, 2020, 515, 167166.	2.3	4
29	Disclosing the Structural, Electronic, Magnetic, and Morphological Properties of CuMnO₂: A Unified Experimental and Theoretical Approach. Journal of Physical Chemistry C, 2020, 124, 5378-5388.	3.1	22
30	Modulation of the magnetoimpedance effect of ZnO:Ag/NiFe heterostructures by thermal annealing. Journal of Materials Science, 2020, 55, 5961-5968.	3.7	5
31	A new heterofunctional support for enzyme immobilization: PEI functionalized Fe3O4 MNPs activated with divinyl sulfone. Application in the immobilization of lipase from Thermomyces lanuginosus. Enzyme and Microbial Technology, 2020, 138, 109560.	3.2	76
32	Filtering magnetic relaxation mechanisms of YIG(001) thin films using ferromagnetic resonance. Journal of Magnetism and Magnetic Materials, 2020, 507, 166851.	2.3	5
33	Incorporating graphene into a sintered ceramic tape: Structural and magnetic properties of a zirconia-graphene composite. Materials Letters, 2020, 270, 127689.	2.6	7
34	Effects of second order surface anisotropy in YIG sputtered onto GGG (1â€¯0â€¯0) oriented substrate. Journal of Magnetism and Magnetic Materials, 2019, 469, 64-68.	2.3	10
35	Role of the spin-orbit coupling on the effective damping parameter in Y3Fe5O12/(Ag,W) bilayers explored through magnetoimpedance effect. Materials Letters, 2019, 256, 126662.	2.6	5
36	Further stabilization of lipase from Pseudomonas fluorescens immobilized on octyl coated nanoparticles via chemical modification with bifunctional agents. International Journal of Biological Macromolecules, 2019, 141, 313-324.	7.5	56

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37	Anomalous Nernst effect in stressed magnetostrictive film grown onto flexible substrate. Scientific Reports, 2019, 9, 15338.	3.3	17
38	Effect of the synthesis method and calcination temperature on the formation of Niâ€“NiO nanocomposites. Journal of Sol-Gel Science and Technology, 2019, 91, 286-294.	2.4	12
39	Exploring the magnetization dynamics, damping and anisotropy in engineered CoFeB/(Ag, Pt) multilayer films grown onto amorphous substrate. Journal of Magnetism and Magnetic Materials, 2019, 485, 75-81.	2.3	9
40	Iron oxide/PVA flexible magnetic tape engineered by microwave combustion and tape casting. Materials Chemistry and Physics, 2019, 232, 1-5.	4.0	14
41	Structural, magnetic and electric properties of ZrO2 tapes decorated with magnetic nanoparticles. Ceramics International, 2019, 45, 14500-14504.	4.8	8
42	NiFe/Cr/NiFe trilayered nanostructures grown on $$mathrm{Al}_{2}mathrm{O}_{3}$$ Al 2 O 3 flexible sheet. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	3
43	Magnetoimpedance effect in ferrimagnetic insulator yttrium iron garnet films capped by copper. Journal of Magnetism and Magnetic Materials, 2019, 480, 6-10.	2.3	6
44	Structural and magnetic properties of Fe2TiO5 nanopowders prepared by ball-milling and post annealing. Materials Letters, 2019, 236, 526-529.	2.6	8
45	Superparamagnetic magnetite/IPEC particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 560, 376-383.	4.7	19
46	Manipulating the magnetic anisotropy and magnetization dynamics by stress: Numerical calculation and experiment. Journal of Magnetism and Magnetic Materials, 2018, 453, 30-35.	2.3	10
47	Bi4Ti3O12 multilayered ceramic tapes produced by aqueous tape casting and laminating process: Structural and dielectric properties. Ceramics International, 2018, 44, 16062-16065.	4.8	9
48	Novel nanohybrid biocatalyst: application in the kinetic resolution of secondary alcohols. Journal of Materials Science, 2018, 53, 14121-14137.	3.7	128
49	Playing with universality classes of Barkhausen avalanches. Scientific Reports, 2018, 8, 11294.	3.3	30
50	Invariance of the magnetic behavior and AMI in ferromagnetic biphase films with distinct non-magnetic metallic spacers. Physica B: Condensed Matter, 2017, 506, 133-137.	2.7	3
51	Effect of Ag clusters doping on the photoluminescence, photocatalysis and magnetic properties of ZnO nanorods prepared by facile microwave-assisted hydrothermal synthesis. Journal of Materials Science: Materials in Electronics, 2017, 28, 11059-11069.	2.2	5
52	A self-assembly of graphene oxide@Fe3O4/metallo-phthalocyanine nanohybrid materials: synthesis, characterization, dielectric and thermal properties. Journal of Materials Science, 2017, 52, 9546-9557.	3.7	7
53	Exchange-biased SiO2/Co/CoO granular multilayers deposited by sequential sputtering. Journal of Magnetism and Magnetic Materials, 2017, 439, 6-12.	2.3	3
54	Design of a lipase-nano particle biocatalysts and its use in the kinetic resolution of medicament precursors. Biochemical Engineering Journal, 2017, 125, 104-115.	3.6	79

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55	CFA Films in Amorphous Substrate: Structural Phase Induction and Magnetization Dynamics. Spin, 2017, 07, 1740001.	1.3	4
56	Kaolin-based magnetic zeolites A and P as water softeners. Microporous and Mesoporous Materials, 2017, 245, 64-72.	4.4	51
57	Thickness dependence of the magnetic anisotropy and dynamic magnetic response of ferromagnetic NiFe films. Journal Physics D: Applied Physics, 2017, 50, 185001.	2.8	32
58	ZrO2 tape as flexible substrate to artificially nanostructured materials. Materials Letters, 2017, 196, 69-73.	2.6	12
59	Universal temporal characteristics and vanishing of multifractality in Barkhausen avalanches. Physical Review E, 2017, 96, 022159.	2.1	23
60	Erratum to â€œMirroring the dynamic magnetic behavior of magnetostrictive Co/(Ag,Cu,Ta) multilayers grown onto rigid and flexible substratesâ€•[J. Magn. Magn. Mater. 393 (2015) 593â€“599]. Journal of Magnetism and Magnetic Materials, 2016, 398, 303-304.	2.3	0
61	Quantitative Scaling of Magnetic Avalanches. Physical Review Letters, 2016, 117, 087201.	7.8	48
62	Handling magnetic anisotropy and magnetoimpedance effect in flexible multilayers under external stress. Journal of Magnetism and Magnetic Materials, 2016, 420, 81-87.	2.3	21
63	Exploring the magnetization dynamics of NiFe/Pt multilayers in flexible substrates. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2016, 211, 115-120.	3.5	14
64	Synthesis of stoichiometric Ca2Fe2O5 nanoparticles by high-energy ball milling and thermal annealing. Physica B: Condensed Matter, 2016, 488, 43-48.	2.7	26
65	Annealing effects on the microwave linewidth broadening of FeCuNbSiB ferromagnetic films. Journal of Applied Physics, 2015, 117, 123913.	2.5	4
66	Asymmetric magnetoimpedance effect in ferromagnetic multilayered biphase films. Journal of Magnetism and Magnetic Materials, 2015, 393, 260-264.	2.3	11
67	Mechano-synthesis, structural and magnetic characterization, and heat release of Î±-Fe nanoparticles embedded in a wÃ¼stite matrix. Journal of Magnetism and Magnetic Materials, 2015, 391, 83-88.	2.3	8
68	Improving the sensitivity of asymmetric magnetoimpedance in exchange biased NiFe/IrMn multilayers. Journal of Magnetism and Magnetic Materials, 2015, 394, 87-91.	2.3	18
69	Mirroring the dynamic magnetic behavior of magnetostrictive Co/(Ag,Cu,Ta) multilayers grown onto rigid and flexible substrates. Journal of Magnetism and Magnetic Materials, 2015, 393, 593-599.	2.3	8
70	Giant magnetoimpedance effect in Co2FeAl single layered and Co2FeAl/Ag multilayered films in amorphous substrates. Materials Letters, 2015, 156, 90-93.	2.6	11
71	Quantifying magnetic anisotropy dispersion: Theoretical and experimental study of the magnetic properties of anisotropic FeCuNbSiB ferromagnetic films. Journal of Applied Physics, 2015, 117, .	2.5	15
72	Tunable asymmetric magnetoimpedance effect in ferromagnetic NiFe/Cu/Co films. Applied Physics Letters, 2014, 105, .	3.3	30

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73	Magnetoimpedance effect at the high frequency range for the thin film geometry: Numerical calculation and experiment. Journal of Applied Physics, 2014, 116, 243904.	2.5	25
74	Statistical properties of Barkhausen noise in amorphous ferromagnetic films. Physical Review E, 2014, 90, 032821.	2.1	17
75	Magnetization dynamics in nanostructures with weak/strong anisotropy. Journal of Applied Physics, 2014, 115, 103908.	2.5	20
76	Angular dependence of asymmetric magnetoimpedance in exchange biased NiFe/IrMn multilayers. Applied Physics Letters, 2014, 104, 102405.	3.3	38
77	Dynamic magnetic behavior in non-magnetostrictive multilayered films grown on glass and flexible substrates. Journal of Magnetism and Magnetic Materials, 2014, 355, 136-141.	2.3	38
78	Magnetization Dynamics Through Magnetoimpedance Effect in Isotropic Co₂FeAl/Au/Co₂FeAl Full-Heusler Alloy Trilayer Films. Applied Physics Express, 2013, 6, 093001.	2.4	6
79	Universal properties of magnetization dynamics in polycrystalline ferromagnetic films. Physical Review E, 2013, 88, 032811.	2.1	12
80	Multifractality in domain wall dynamics of a ferromagnetic film. Physical Review E, 2012, 86, 066117.	2.1	16
81	High frequency magnetic behavior through the magnetoimpedance effect in CoFeB/(Ta, Ag, Cu) multilayered ferromagnetic thin films. Thin Solid Films, 2012, 520, 2173-2177.	1.8	19
82	Universality beyond power laws and the average avalanche shape. Nature Physics, 2011, 7, 316-320.	16.7	185
83	Stress dependence of the domain wall dynamics in the adiabatic regime. Journal of Magnetism and Magnetic Materials, 2011, 323, 268-271.	2.3	15
84	Theoretical and experimental study of Fe/Cr nanometric quasiperiodic multilayers. Solid State Communications, 2011, 151, 337-340.	1.9	11
85	Wide frequency range magnetoimpedance in tri-layered thin NiFe/Ag/NiFe films: Experiment and numerical calculation. Journal of Applied Physics, 2011, 110, .	2.5	26
86	Tailoring the magnetoimpedance effect of NiFe/Ag multilayer. Journal Physics D: Applied Physics, 2010, 43, 295004.	2.8	66
87	Deposition of Co nano-particles in a CoO/Al2O3 matrix by magnetron sputtering. Journal of Magnetism and Magnetic Materials, 2008, 320, e308-e311.	2.3	3
88	Giant magnetoimpedance in FM/SiO2/Cu/SiO2/FM films at GHz frequencies. Journal of Magnetism and Magnetic Materials, 2008, 320, e25-e28.	2.3	15
89	Magnetoimpedance effect in structured multilayered amorphous thin films. Journal Physics D: Applied Physics, 2008, 41, 175003.	2.8	23
90	Comparison between ac and dc current annealing in CoFeSiB glass-covered amorphous microwires. Journal Physics D: Applied Physics, 2007, 40, 3233-3238.	2.8	16

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91	Thickness dependence of the high-frequency magnetic permeability in amorphous Fe73.5Cu1Nb3Si13.5B9 thin films. Journal of Applied Physics, 2007, 101, 033908.	2.5	31
92	Magnetostriction, Barkhausen noise and magnetization processes in E110 grade non-oriented electrical steels. Journal of Magnetism and Magnetic Materials, 2007, 317, 20-28.	2.3	20
93	Effects of thickness on the statistical properties of the Barkhausen noise in amorphous films. Physica B: Condensed Matter, 2006, 384, 144-146.	2.7	26
94	Magnetostriction in non-oriented electrical steels. Physica B: Condensed Matter, 2006, 384, 294-296.	2.7	7
95	Superparamagnetic polyacrylamide/magnetite composite gels. Journal of Dispersion Science and Technology, 0, , 1-9.	2.4	8
96	Experimental evidence of exchange forces between nanoparticles in a superparamagnetic system. Journal Physics D: Applied Physics, 0, , .	2.8	1