

Felipe Bohn

List of Publications by Year in descending order

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96
papers

1,751
citations

304602

22
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330025

37
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96
all docs

96
docs citations

96
times ranked

1638
citing authors

#	ARTICLE	IF	CITATIONS
1	Universality beyond power laws and the average avalanche shape. <i>Nature Physics</i> , 2011, 7, 316-320.	6.5	185
2	Novel nanohybrid biocatalyst: application in the kinetic resolution of secondary alcohols. <i>Journal of Materials Science</i> , 2018, 53, 14121-14137.	1.7	128
3	Design of a lipase-nano particle biocatalysts and its use in the kinetic resolution of medicament precursors. <i>Biochemical Engineering Journal</i> , 2017, 125, 104-115.	1.8	79
4	A new heterofunctional support for enzyme immobilization: PEI functionalized Fe ₃ O ₄ MNPs activated with divinyl sulfone. Application in the immobilization of lipase from <i>Thermomyces lanuginosus</i> . <i>Enzyme and Microbial Technology</i> , 2020, 138, 109560.	1.6	76
5	Tailoring the magnetoimpedance effect of NiFe/Ag multilayer. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 295004.	1.3	66
6	Further stabilization of lipase from <i>Pseudomonas fluorescens</i> immobilized on octyl coated nanoparticles via chemical modification with bifunctional agents. <i>International Journal of Biological Macromolecules</i> , 2019, 141, 313-324.	3.6	56
7	Kaolin-based magnetic zeolites A and P as water softeners. <i>Microporous and Mesoporous Materials</i> , 2017, 245, 64-72.	2.2	51
8	Quantitative Scaling of Magnetic Avalanches. <i>Physical Review Letters</i> , 2016, 117, 087201.	2.9	48
9	Angular dependence of asymmetric magnetoimpedance in exchange biased NiFe/IrMn multilayers. <i>Applied Physics Letters</i> , 2014, 104, 102405.	1.5	38
10	Dynamic magnetic behavior in non-magnetostrictive multilayered films grown on glass and flexible substrates. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 355, 136-141.	1.0	38
11	Thickness dependence of the magnetic anisotropy and dynamic magnetic response of ferromagnetic NiFe films. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 185001.	1.3	32
12	Thickness dependence of the high-frequency magnetic permeability in amorphous Fe _{73.5} Cu ₁ Nb ₃ Si _{13.5} B ₉ thin films. <i>Journal of Applied Physics</i> , 2007, 101, 033908.	1.1	31
13	Tuning structural, magnetic, electrical, and dielectric properties of MgFe ₂ O ₄ synthesized by sol-gel followed by heat treatment. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 154, 110051.	1.9	31
14	Tunable asymmetric magnetoimpedance effect in ferromagnetic NiFe/Cu/Co films. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	30
15	Playing with universality classes of Barkhausen avalanches. <i>Scientific Reports</i> , 2018, 8, 11294.	1.6	30
16	Characterization and photocatalytic application of Ce ⁴⁺ , Co ²⁺ , Mn ²⁺ and Ni ²⁺ doped Fe ₃ O ₄ magnetic nanoparticles obtained by the co-precipitation method. <i>Materials Chemistry and Physics</i> , 2020, 242, 122489.	2.0	27
17	Magnetic zeolite composites: Classification, synthesis routes, and technological applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 560, 169651.	1.0	27
18	Effects of thickness on the statistical properties of the Barkhausen noise in amorphous films. <i>Physica B: Condensed Matter</i> , 2006, 384, 144-146.	1.3	26

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19	Wide frequency range magnetoimpedance in tri-layered thin NiFe/Ag/NiFe films: Experiment and numerical calculation. Journal of Applied Physics, 2011, 110, .	1.1	26
20	Synthesis of stoichiometric Ca ₂ Fe ₂ O ₅ nanoparticles by high-energy ball milling and thermal annealing. Physica B: Condensed Matter, 2016, 488, 43-48.	1.3	26
21	Magnetoimpedance effect at the high frequency range for the thin film geometry: Numerical calculation and experiment. Journal of Applied Physics, 2014, 116, 243904.	1.1	25
22	Magnetoimpedance effect in structured multilayered amorphous thin films. Journal Physics D: Applied Physics, 2008, 41, 175003.	1.3	23
23	Universal temporal characteristics and vanishing of multifractality in Barkhausen avalanches. Physical Review E, 2017, 96, 022159.	0.8	23
24	Disclosing the Structural, Electronic, Magnetic, and Morphological Properties of CuMnO ₂ : A Unified Experimental and Theoretical Approach. Journal of Physical Chemistry C, 2020, 124, 5378-5388.	1.5	22
25	Handling magnetic anisotropy and magnetoimpedance effect in flexible multilayers under external stress. Journal of Magnetism and Magnetic Materials, 2016, 420, 81-87.	1.0	21
26	Magnetostriction, Barkhausen noise and magnetization processes in E110 grade non-oriented electrical steels. Journal of Magnetism and Magnetic Materials, 2007, 317, 20-28.	1.0	20
27	Magnetization dynamics in nanostructures with weak/strong anisotropy. Journal of Applied Physics, 2014, 115, 103908.	1.1	20
28	High frequency magnetic behavior through the magnetoimpedance effect in CoFeB/(Ta, Ag, Cu) multilayered ferromagnetic thin films. Thin Solid Films, 2012, 520, 2173-2177.	0.8	19
29	Superparamagnetic magnetite/IPEC particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 560, 376-383.	2.3	19
30	Improving the sensitivity of asymmetric magnetoimpedance in exchange biased NiFe/IrMn multilayers. Journal of Magnetism and Magnetic Materials, 2015, 394, 87-91.	1.0	18
31	Statistical properties of Barkhausen noise in amorphous ferromagnetic films. Physical Review E, 2014, 90, 032821.	0.8	17
32	Anomalous Nernst effect in stressed magnetostrictive film grown onto flexible substrate. Scientific Reports, 2019, 9, 15338.	1.6	17
33	Comparison between ac and dc current annealing in CoFeSiB glass-covered amorphous microwires. Journal Physics D: Applied Physics, 2007, 40, 3233-3238.	1.3	16
34	Multifractality in domain wall dynamics of a ferromagnetic film. Physical Review E, 2012, 86, 066117.	0.8	16
35	Giant magnetoimpedance in FM/SiO ₂ /Cu/SiO ₂ /FM films at GHz frequencies. Journal of Magnetism and Magnetic Materials, 2008, 320, e25-e28.	1.0	15
36	Stress dependence of the domain wall dynamics in the adiabatic regime. Journal of Magnetism and Magnetic Materials, 2011, 323, 268-271.	1.0	15

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37	Quantifying magnetic anisotropy dispersion: Theoretical and experimental study of the magnetic properties of anisotropic FeCuNbSiB ferromagnetic films. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	15
38	Magnetic nanoparticles hyperthermia in a non-adiabatic and radiating process. <i>Scientific Reports</i> , 2021, 11, 11867.	1.6	15
39	Exploring the magnetization dynamics of NiFe/Pt multilayers in flexible substrates. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016, 211, 115-120.	1.7	14
40	Iron oxide/PVA flexible magnetic tape engineered by microwave combustion and tape casting. <i>Materials Chemistry and Physics</i> , 2019, 232, 1-5.	2.0	14
41	Modulating the Spin Seebeck Effect in Co ₂ FeAl Heusler Alloy for Sensor Applications. <i>Sensors</i> , 2020, 20, 1387.	2.1	14
42	Universal properties of magnetization dynamics in polycrystalline ferromagnetic films. <i>Physical Review E</i> , 2013, 88, 032811.	0.8	12
43	ZrO ₂ tape as flexible substrate to artificially nanostructured materials. <i>Materials Letters</i> , 2017, 196, 69-73.	1.3	12
44	Effect of the synthesis method and calcination temperature on the formation of Ni@NiO nanocomposites. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 91, 286-294.	1.1	12
45	Theoretical and experimental study of Fe/Cr nanometric quasiperiodic multilayers. <i>Solid State Communications</i> , 2011, 151, 337-340.	0.9	11
46	Asymmetric magnetoimpedance effect in ferromagnetic multilayered biphasic films. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 393, 260-264.	1.0	11
47	Giant magnetoimpedance effect in Co ₂ FeAl single layered and Co ₂ FeAl/Ag multilayered films in amorphous substrates. <i>Materials Letters</i> , 2015, 156, 90-93.	1.3	11
48	Manipulating the magnetic anisotropy and magnetization dynamics by stress: Numerical calculation and experiment. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 453, 30-35.	1.0	10
49	Effects of second order surface anisotropy in YIG sputtered onto GGG (110) oriented substrate. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 469, 64-68.	1.0	10
50	Fe@Co coatings electrodeposited from eutectic mixture of choline chloride-urea: Physical characterizations and evaluation as electrocatalysts for the hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2021, 851, 156330.	2.8	10
51	CoFe ₂ O ₄ @BiFeO ₃ core/shell nanoparticles: Synthesis, characterization, and fingerprints of the spin disorder. <i>Journal of Alloys and Compounds</i> , 2021, 889, 161650.	2.8	10
52	Bi ₄ Ti ₃ O ₁₂ multilayered ceramic tapes produced by aqueous tape casting and laminating process: Structural and dielectric properties. <i>Ceramics International</i> , 2018, 44, 16062-16065.	2.3	9
53	Exploring the magnetization dynamics, damping and anisotropy in engineered CoFeB/(Ag, Pt) multilayer films grown onto amorphous substrate. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 485, 75-81.	1.0	9
54	Mechano-synthesis, structural and magnetic characterization, and heat release of γ -Fe nanoparticles embedded in a wüstite matrix. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 391, 83-88.	1.0	8

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55	Mirroring the dynamic magnetic behavior of magnetostrictive Co/(Ag,Cu,Ta) multilayers grown onto rigid and flexible substrates. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 393, 593-599.	1.0	8
56	Structural, magnetic and electric properties of ZrO ₂ tapes decorated with magnetic nanoparticles. <i>Ceramics International</i> , 2019, 45, 14500-14504.	2.3	8
57	Structural and magnetic properties of Fe ₂ TiO ₅ nanopowders prepared by ball-milling and post annealing. <i>Materials Letters</i> , 2019, 236, 526-529.	1.3	8
58	Effects of the Bi ³⁺ substitution on the structural, vibrational, and magnetic properties of bismuth layer-structured ferroelectrics. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	8
59	Superparamagnetic polyacrylamide/magnetite composite gels. <i>Journal of Dispersion Science and Technology</i> , 0, , 1-9.	1.3	8
60	Magnetostriction in non-oriented electrical steels. <i>Physica B: Condensed Matter</i> , 2006, 384, 294-296.	1.3	7
61	A self-assembly of graphene oxide@Fe ₃ O ₄ /metallo-phthalocyanine nanohybrid materials: synthesis, characterization, dielectric and thermal properties. <i>Journal of Materials Science</i> , 2017, 52, 9546-9557.	1.7	7
62	Magnetic properties of Ni-doped Mo ₂ C produced by fixed bed reactor. <i>Materials Letters</i> , 2020, 273, 127916.	1.3	7
63	Incorporating graphene into a sintered ceramic tape: Structural and magnetic properties of a zirconia-graphene composite. <i>Materials Letters</i> , 2020, 270, 127689.	1.3	7
64	Fe _x Ni _(1-x) coatings electrodeposited from choline chloride-urea mixture: Magnetic and electrocatalytic properties for water electrolysis. <i>Materials Chemistry and Physics</i> , 2022, 279, 125738.	2.0	7
65	Magnetization Dynamics Through Magnetoimpedance Effect in Isotropic Co ₂ FeAl/Au/Co ₂ FeAl Full-Heusler Alloy Trilayer Films. <i>Applied Physics Express</i> , 2013, 6, 093001.	1.1	6
66	Magnetoimpedance effect in ferrimagnetic insulator yttrium iron garnet films capped by copper. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 480, 6-10.	1.0	6
67	Observation of quasi-diamagnetism and a transition from negative to positive in the exchange bias of a NiMnIn Heusler alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 493, 165691.	1.0	6
68	Longitudinal spin Seebeck effect and anomalous Nernst effect in CoFeB/non-magnetic metal bilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 527, 167778.	1.0	6
69	Directional Field-Dependence of Magnetoimpedance Effect on Integrated YIG/Pt-Stripline System. <i>Sensors</i> , 2021, 21, 6145.	2.1	6
70	Effect of Ag clusters doping on the photoluminescence, photocatalysis and magnetic properties of ZnO nanorods prepared by facile microwave-assisted hydrothermal synthesis. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 11059-11069.	1.1	5
71	Role of the spin-orbit coupling on the effective damping parameter in Y ₃ Fe ₅ O ₁₂ /(Ag,W) bilayers explored through magnetoimpedance effect. <i>Materials Letters</i> , 2019, 256, 126662.	1.3	5
72	Modulation of the magnetoimpedance effect of ZnO:Ag/NiFe heterostructures by thermal annealing. <i>Journal of Materials Science</i> , 2020, 55, 5961-5968.	1.7	5

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73	Filtering magnetic relaxation mechanisms of YIG(001) thin films using ferromagnetic resonance. Journal of Magnetism and Magnetic Materials, 2020, 507, 166851.	1.0	5
74	Improving the thermomechanical and magnetic properties of CuMnAl Heusler alloy by TiB doping. Journal of Materials Science: Materials in Electronics, 2021, 32, 1369-1378.	1.1	5
75	Annealing effects on the microwave linewidth broadening of FeCuNbSiB ferromagnetic films. Journal of Applied Physics, 2015, 117, 123913.	1.1	4
76	CFA Films in Amorphous Substrate: Structural Phase Induction and Magnetization Dynamics. Spin, 2017, 07, 1740001.	0.6	4
77	High-frequency magnetoimpedance effect in meander-line trilayered films. Journal of Magnetism and Magnetic Materials, 2020, 515, 167166.	1.0	4
78	Maximum entropy in the dimensional transition of the magnetic domain wall dynamics. Physica A: Statistical Mechanics and Its Applications, 2021, 568, 125730.	1.2	4
79	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.	0.8	4
80	Dynamic magnetic properties of $\text{Co}_2\text{FeAl}/\text{IrMn}$ bilayers. Journal of Magnetism and Magnetic Materials, 2022, 560, 169618.	1.0	4
81	Deposition of Co nano-particles in a $\text{CoO}/\text{Al}_2\text{O}_3$ matrix by magnetron sputtering. Journal of Magnetism and Magnetic Materials, 2008, 320, e308-e311.	1.0	3
82	Invariance of the magnetic behavior and AMI in ferromagnetic biphasic films with distinct non-magnetic metallic spacers. Physica B: Condensed Matter, 2017, 506, 133-137.	1.3	3
83	Exchange-biased $\text{SiO}_2/\text{Co}/\text{CoO}$ granular multilayers deposited by sequential sputtering. Journal of Magnetism and Magnetic Materials, 2017, 439, 6-12.	1.0	3
84	NiFe/Cr/NiFe trilayered nanostructures grown on Al_2O_3 flexible sheet. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	3
85	Magnetic Response Dependence of ZnO Based Thin Films on Ag Doping and Processing Architecture. Materials, 2020, 13, 2907.	1.3	3
86	Waiting-time statistics in magnetic systems. Scientific Reports, 2020, 10, 9692.	1.6	3
87	Co_2FeAl Heusler alloy onto amorphous TiO_2 layer: Exploring the quasi-static and dynamic magnetic properties. Journal of Physics and Chemistry of Solids, 2021, 154, 110088.	1.9	3
88	Unraveling the role of magnetic anisotropy on the thermoelectric response: a theoretical and experimental approach. Journal Physics D: Applied Physics, 2022, 55, 025001.	1.3	3
89	Dynamic magnetic response of exchange-biased $\text{Co}_2\text{FeAl}/\text{IrMn}$ nanostructures. Materials Letters, 2021, 291, 129518.	1.3	2
90	Feasibility of Developing a Heusler NiMnSn Alloy via Induction Casting Without Controlled Atmosphere. MRS Communications, 2021, 11, 336-341.	0.8	2

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91	Spin pumping contribution to the magnetization damping in Tm ₃ Fe ₅ O ₁₂ /W bilayers. Journal of Magnetism and Magnetic Materials, 2022, 543, 168630.	1.0	2
92	Improving the Room-Temperature Ferromagnetism in ZnO and Low-Doped ZnO:Ag Films Using GLAD Sputtering. Materials, 2021, 14, 5337.	1.3	1
93	High frequency dielectric characterization of graphene doped flexible ceramics multilayers. Ceramics International, 2022, , .	2.3	1
94	Experimental evidence of exchange forces between nanoparticles in a superparamagnetic system. Journal Physics D: Applied Physics, 0, , .	1.3	1
95	Erratum to "Mirroring the dynamic magnetic behavior of magnetostrictive Co/(Ag,Cu,Ta) multilayers grown onto rigid and flexible substrates" [J. Magn. Magn. Mater. 393 (2015) 593-599]. Journal of Magnetism and Magnetic Materials, 2016, 398, 303-304.	1.0	0
96	Assessing the relaxation mechanisms contributions on magnetoimpedance effect in YIG/W bilayers. Journal Physics D: Applied Physics, 2022, 55, 215003.	1.3	0