

Ruben Guerrero

List of Publications by Year in descending order

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45
papers

641
citations

759233

12
h-index

580821

25
g-index

45
all docs

45
docs citations

45
times ranked

1131
citing authors

#	ARTICLE	IF	CITATIONS
1	Low frequency noise in arrays of magnetic tunnel junctions connected in series and parallel. Journal of Applied Physics, 2009, 105, .	2.5	72
2	Unraveling Dzyaloshinskiiâ€Moriya Interaction and Chiral Nature of Graphene/Cobalt Interface. Nano Letters, 2018, 18, 5364-5372.	9.1	60
3	Shot Noise in Magnetic Tunnel Junctions: Evidence for Sequential Tunneling. Physical Review Letters, 2006, 97, 266602.	7.8	51
4	High bias voltage effect on spin-dependent conductivity and shot noise in carbon-doped Fe(001)â•MgO(001)â•Fe(001) magnetic tunnel junctions. Applied Physics Letters, 2007, 91, 132504.	3.3	49
5	Enhanced Visibility of MoS2, MoSe2, WSe2 and Black-Phosphorus: Making Optical Identification of 2D Semiconductors Easier. Electronics (Switzerland), 2015, 4, 847-856.	3.1	44
6	Very low 1â•f noise at room temperature in fully epitaxial Feâ•MgOâ•Fe magnetic tunnel junctions. Applied Physics Letters, 2007, 91, .	3.3	41
7	Tuning domain wall velocity with Dzyaloshinskii-Moriya interaction. Applied Physics Letters, 2017, 111, .	3.3	40
8	Engineering Large Anisotropic Magnetoresistance in La_{0.7}Sr_{0.3}MnO₃ Films at Room Temperature. Advanced Functional Materials, 2017, 27, 1700664.	14.9	39
9	Low-frequency noise and tunneling magnetoresistance in Fe(110)â•MgO(111)â•Fe(110) epitaxial magnetic tunnel junctions. Applied Physics Letters, 2005, 87, 042501.	3.3	36
10	Dual Antiferromagnetic Coupling at <math display="inline"> \langle \text{La} \rangle \langle \text{Mn} \rangle > 0.67 < /math > Physical Review Letters, 2012, 109, 027201.	3.3	32
11	Noise of MgO-based magnetic tunnel junctions. Journal of Magnetism and Magnetic Materials, 2010, 322, 1624-1627.	2.3	17
12	Anomalous low-frequency noise in synthetic antiferromagnets: Possible evidence of current-induced domain-wall motion. Physical Review B, 2009, 79, .	3.2	14
13	Intrinsic Mixed Blochâ€NÃ©el Character and Chirality of Skyrmions in Asymmetric Epitaxial Trilayers. ACS Applied Materials & Interfaces, 2020, 12, 25419-25427.	8.0	12
14	Fully epitaxial Fe(110)/MgO(111)/Fe(110) magnetic tunnel junctions: Growth, transport, and spin filtering properties. Applied Physics Letters, 2008, 93, 083512.	3.3	11
15	Emergence of the Stoner-Wohlfarth astroid in thin films at dynamic regime. Scientific Reports, 2017, 7, 13474.	3.3	11
16	Spin-Orbit Torque from the Introduction of Cu Interlayers in Pt/Cu/Co/Pt Nanolayered Structures for Spintronic Devices. ACS Applied Nano Materials, 2021, 4, 487-492.	5.0	11
17	Low frequency noise in Co/Al2O3$\langle \delta \rangle$(Fe)$\langle \delta \rangle$/Ni80Fe20 magnetic tunnel junctions. Journal Physics D: Applied Physics, 2002, 35, 1761-1764.	2.8	9
18	Interfacial exchange-coupling induced chiral symmetry breaking of spin-orbit effects. Physical Review B, 2015, 92, .	3.2	9

#	ARTICLE	IF	CITATIONS
19	Band structure of topological insulators from noise measurements in tunnel junctions. Applied Physics Letters, 2015, 107, .	3.3	9
20	Engineering the spin conversion in graphene monolayer epitaxial structures. APL Materials, 2021, 9, .	5.1	9
21	Sub-nT Resolution of Single Layer Sensor Based on the AMR Effect in $\text{La}_{2/3}\text{Sr}_{1/3}\text{MnO}_3$ Thin Films. IEEE Transactions on Magnetics, 2022, 58, 1-4.	2.1	8
22	Low frequency noise in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ based magnetic tunnel junctions. Applied Physics Letters, 2012, 100, .	3.3	7
23	Unusual low-frequency noise in irradiated SrTiO_3 . Physical Review B, 2010, 82, .	3.2	6
24	Magnetic tunnels junctions for all-oxide spin valves devices. Journal of Physics: Conference Series, 2011, 303, 012059.	0.4	6
25	Inter-grain effects on the magnetism of M-type strontium ferrite. Journal of Alloys and Compounds, 2017, 692, 280-287.	5.5	6
26	High Critical Temperature Superconducting Wire Based Flux Transformers. IEEE Transactions on Applied Superconductivity, 2009, 19, 761-763.	1.7	5
27	Highly Bi-doped Cu thin films with large spin-mixing conductance. APL Materials, 2018, 6, .	5.1	5
28	Ultrathin junctions based on the $\text{LaSrMnO}_3/\text{Nb:SrTiO}_3$ functional oxide interface. Thin Solid Films, 2016, 617, 82-85.	1.8	3
29	Low noise all-oxide magnetic tunnel junctions based on a $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{Nb:SrTiO}_3$ interface. Applied Physics Letters, 2017, 110, 082405.	3.3	3
30	Strong Reduction of $1/f$ Noise by Carbon Doping in Epitaxial $\text{Fe}/\text{MgO}(100)$ 12 ML/ Fe Magnetic Tunnel Junctions with Barrier Defects. Acta Physica Polonica A, 2012, 121, 981-984.	0.5	3
31	Conductance in $\text{Co}/\text{Al}_2\text{O}_3/\text{Si}/\text{Al}_2\text{O}_3$ permalloy with asymmetrically doped barrier. Physical Review B, 2010, 81, .	3.2	2
32	Noise and electric field characterization of irradiated SrTiO_3 . Journal of Physics: Conference Series, 2011, 303, 012063.	0.4	2
33	Temperature Study of the Antiferromagnetic Coupling at the Interface of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ and SrRuO_3 Bilayers. IEEE Transactions on Magnetics, 2012, 48, 4363-4366.	2.1	2
34	Two-dimensional chiral asymmetry in unidirectional magnetic anisotropy structures. AIP Advances, 2016, 6, 055819.	1.3	2
35	Low-frequency response in antiferromagnetically coupled Fe/Cr multilayers. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1806-1807.	2.3	1
36	Low frequency magnetic noise in epitaxial antiferromagnetically coupled Fe/Cr multilayers. Journal of Magnetism and Magnetic Materials, 2002, 240, 165-167.	2.3	1

#	ARTICLE	IF	CITATIONS
37	Unusual magnetic susceptibility and magnetoresistance in [Fe ²⁺ /Cr(001)] ₁₀ multilayers at low temperatures. Journal of Applied Physics, 2005, 97, 10C505.	2.5	1
38	Low-frequency noise and inelastic tunneling spectroscopy in Fe(110)/MgO(111)/Fe(110) epitaxial magnetic tunnel junctions. Journal of Magnetism and Magnetic Materials, 2006, 300, 132-135.	2.3	1
39	Spin electronic magnetic sensor based on functional oxides for medical imaging. Proceedings of SPIE, 2015, , .	0.8	1
40	Complex magnetic response in magnetic tunnel junctions determined via magnetic and transport measurements. Materials Research Society Symposia Proceedings, 2002, 746, 1.	0.1	0
41	Enhanced magnetic viscosity at low temperatures in [Fe/Cr(001)] ₁₀ multilayers. Journal of Magnetism and Magnetic Materials, 2007, 316, 344-347.	2.3	0
42	Shot noise in Co/Al ₂ O ₃ /M/Py (M=Cr, Si) magnetic tunnel junctions. Journal of Magnetism and Magnetic Materials, 2007, 316, e990-e993.	2.3	0
43	Low frequency noise in Co/Al ₂ O ₃ /Si/Py magnetic tunnel junctions. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1040-1042.	1.8	0
44	All-oxide magnetic field sensor. , 2011, , .		0
45	Chiral asymmetry driven by unidirectional magnetic anisotropy in Spin-Orbitronic systems. Proceedings of SPIE, 2016, , .	0.8	0