

Julian P Velez

List of Publications by Year in descending order

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26
papers

1,685
citations

471509

17
h-index

580821

25
g-index

26
all docs

26
docs citations

26
times ranked

2212
citing authors

#	ARTICLE	IF	CITATIONS
1	Ferroelectric-driven tunable magnetism in ultrathin platinum films. <i>Physical Review Materials</i> , 2020, 4, .	2.4	4
2	On the Origin of Biomolecular Networks. <i>Frontiers in Genetics</i> , 2019, 10, 240.	2.3	17
3	Mapping Base Modifications in DNA by Transverse-Current Sequencing. <i>Physical Review Applied</i> , 2018, 9, .	3.8	2
4	Crossing the wall. <i>Nature Nanotechnology</i> , 2017, 12, 614-615.	31.5	14
5	Spin-transfer torque in multiferroic tunnel junctions with composite dielectric/ferroelectric barriers. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 495302.	1.8	1
6	Band structure and spin texture of $\text{Bi}/\text{MnO}_2/\text{MnO}$ metal interface. <i>Physical Review B</i> , 2016, 94, .	2.2	18
7	Predictive modelling of ferroelectric tunnel junctions. <i>Npj Computational Materials</i> , 2016, 2, .	8.7	88
8	DNA/RNA transverse current sequencing: intrinsic structural noise from neighboring bases. <i>Frontiers in Genetics</i> , 2015, 6, 213.	2.3	8
9	Ferroelectric control of spin-transfer torque in multiferroic tunnel junctions. <i>Physical Review B</i> , 2015, 91, .	3.2	10
10	Bias-dependence of the tunneling electroresistance and magnetoresistance in multiferroic tunnel junctions. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	21
11	Complex band structure of topologically protected edge states. <i>Physical Review B</i> , 2014, 90, .	3.2	23
12	Intrinsic Noise from Neighboring Bases in the DNA Transverse Tunneling Current. <i>Physical Review Applied</i> , 2014, 1, .	3.8	8
13	Spin torque in magnetic tunnel junctions with asymmetric barriers. <i>Physical Review B</i> , 2013, 88, .	3.2	29
14	Interface states in CoFe_2O_4 spin-filter tunnel junctions. <i>Physical Review B</i> , 2013, 88, .	3.2	22
15	Electric-field-induced magnetization changes in $\text{Co}/\text{Al}_2\text{O}_3$ granular multilayers. <i>Physical Review B</i> , 2013, 87, .	3.2	1
16	Multiferroic tunnel junctions with poly(vinylidene fluoride). <i>Physical Review B</i> , 2012, 85, .	3.2	37
17	Nonequilibrium coherent potential approximation for electron transport. <i>Physical Review B</i> , 2012, 85, .	3.2	17
18	Approaching an organic semimetal: Electron pockets at the Fermi level for a benzoquinonemonoimine zwitterion. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 1571-1576.	1.5	18

#	ARTICLE	IF	CITATIONS
19	Back Cover: Approaching an organic semimetal: Electron pockets at the Fermi level for a β -benzoquinonemonoimine zwitterion (Phys. Status Solidi B 8/2012). Physica Status Solidi (B): Basic Research, 2012, 249, .	1.5	0
20	Spin filtering with EuO: Insight from the complex band structure. Physical Review B, 2012, 85, .	3.2	24
21	Dispersion-corrected density functional theory comparison of hydrogen adsorption on boron-nitride and carbon nanotubes. Physical Review B, 2011, 84, .	3.2	24
22	Magnetic Tunnel Junctions with Ferroelectric Barriers: Prediction of Four Resistance States from First Principles. Nano Letters, 2009, 9, 427-432.	9.1	305
23	Surface Magnetoelectric Effect in Ferromagnetic Metal Films. Physical Review Letters, 2008, 101, 137201.	7.8	606
24	Magnetoelectric effect at the $\text{Fe}_3\text{O}_4/\text{PbTiO}_3$ interface: A first-principles study. Physical Review B, 2008, 78, .	7.2	155
25	Magnetism of $\text{LaAlO}_3/\text{SrTiO}_3$ superlattices. Journal of Applied Physics, 2008, 103, 07B508.	2.5	54
26	Tailoring magnetic anisotropy at the ferromagnetic/ferroelectric interface. Applied Physics Letters, 2008, 92, .	3.3	139