Julian P Velev

List of Publications by Year
in descending order

26	1,685	471509 17	580821 25
papers	citations	h-index	g-index

26	26	26	2212
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Surface Magnetoelectric Effect in Ferromagnetic Metal Films. Physical Review Letters, 2008, 101, 137201.	7.8	606
2	Magnetic Tunnel Junctions with Ferroelectric Barriers: Prediction of Four Resistance States from First Principles. Nano Letters, 2009, 9, 427-432.	9.1	305
3	Magnetoelectric effect at the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Fe</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub> interface: A first-principles study. Physical Review B, 2008, 78, .	3.2	155
4	Tailoring magnetic anisotropy at the ferromagnetic/ferroelectric interface. Applied Physics Letters, 2008, 92, .	3.3	139
5	Predictive modelling of ferroelectric tunnel junctions. Npj Computational Materials, 2016, 2, .	8.7	88
6	Band structure and spin texture of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub> metal interface. Physical Review B, 2016, 94, .	3.2	58
7	Magnetism of LaAlO3âˆ•SrTiO3 superlattices. Journal of Applied Physics, 2008, 103, 07B508.	2.5	54
8	Multiferroic tunnel junctions with poly(vinylidene fluoride). Physical Review B, 2012, 85, .	3.2	37
9	Spin torque in magnetic tunnel junctions with asymmetric barriers. Physical Review B, 2013, 88, .	3.2	29
10	Dispersion-corrected density functional theory comparison of hydrogen adsorption on boron-nitride and carbon nanotubes. Physical Review B, 2011, 84, .	3.2	24
11	Spin filtering with EuO: Insight from the complex band structure. Physical Review B, 2012, 85, .	3.2	24
12	Complex band structure of topologically protected edge states. Physical Review B, 2014, 90, .	3.2	23
13	Interface states in CoFe2O4spin-filter tunnel junctions. Physical Review B, 2013, 88, .	3.2	22
14	Bias-dependence of the tunneling electroresistance and magnetoresistance in multiferroic tunnel junctions. Applied Physics Letters, 2014, 105, .	3.3	21
15	Approaching an organic semimetal: Electron pockets at the Fermi level for a pâ€benzoquinonemonoimine zwitterion. Physica Status Solidi (B): Basic Research, 2012, 249, 1571-1576.	1.5	18
16	Nonequilibrium coherent potential approximation for electron transport. Physical Review B, 2012, 85, .	3.2	17
17	On the Origin of Biomolecular Networks. Frontiers in Genetics, 2019, 10, 240.	2.3	17
18	Crossing the wall. Nature Nanotechnology, 2017, 12, 614-615.	31.5	14

#	Article	IF	Citations
19	Ferroelectric control of spin-transfer torque in multiferroic tunnel junctions. Physical Review B, 2015, 91, .	3.2	10
20	Intrinsic Noise from Neighboring Bases in the DNA Transverse Tunneling Current. Physical Review Applied, 2014, 1, .	3.8	8
21	DNA/RNA transverse current sequencing: intrinsic structural noise from neighboring bases. Frontiers in Genetics, 2015, 6, 213.	2.3	8
22	Ferroelectric-driven tunable magnetism in ultrathin platinum films. Physical Review Materials, 2020, 4, .	2.4	4
23	Mapping Base Modifications in DNA by Transverse-Current Sequencing. Physical Review Applied, 2018, 9, .	3.8	2
24	Electric-field-induced magnetization changes in Co/Al2O3granular multilayers. Physical Review B, 2013, 87, .	3.2	1
25	Spin-transfer torque in multiferroic tunnel junctions with composite dielectric/ferroelectric barriers. Journal of Physics Condensed Matter, 2017, 29, 495302.	1.8	1
26	Back Cover: Approaching an organic semimetal: Electron pockets at the Fermi level for a pâ€benzoquinonemonoimine zwitterion (Phys. Status Solidi B 8/2012). Physica Status Solidi (B): Basic Research, 2012, 249, .	1.5	0