

Pablo Maldonado

List of Publications by Year in descending order

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53
papers

3,130
citations

304743

22
h-index

175258

52
g-index

55
all docs

55
docs citations

55
times ranked

3722
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonequilibrium sub-10 nm spin-wave soliton formation in FePt nanoparticles. <i>Science Advances</i> , 2022, 8, eabn0523.	10.3	10
2	Ultrafast terahertz magnetometry. <i>Nature Communications</i> , 2020, 11, 4247.	12.8	61
3	High-frequency magnon excitation due to femtosecond spin-transfer torques. <i>Physical Review B</i> , 2020, 101, .	3.2	13
4	Domain wall dynamics due to femtosecond laser-induced superdiffusive spin transport. <i>Physical Review B</i> , 2020, 101, .	3.2	12
5	Tracking the ultrafast nonequilibrium energy flow between electronic and lattice degrees of freedom in crystalline nickel. <i>Physical Review B</i> , 2020, 101, .	3.2	41
6	Coherent modulation of the electron temperature and electron-phonon couplings in a 2D material. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 8788-8793.	7.1	34
7	Theory of out-of-equilibrium electron and phonon dynamics in metals after femtosecond laser excitation. <i>Physical Review B</i> , 2020, 102, .	3.2	24
8	Ultrafast Magnetization Dynamics Revealed by Terahertz Magnetometry. , 2020, , .		0
9	Microscopic theory of ultrafast out-of-equilibrium magnon-phonon dynamics in insulators. <i>Physical Review B</i> , 2019, 100, .	3.2	9
10	Study of Ultrafast Magnetism by THz Emission Spectroscopy. , 2019, , .		0
11	Element-selective investigation of femtosecond spin dynamics in NiPd magnetic alloys using extreme ultraviolet radiation. <i>Physical Review B</i> , 2018, 97, .	3.2	14
12	Observation of gapless Dirac surface states in ZrGeTe. <i>Physical Review B</i> , 2018, 97, .	3.2	34
13	Transport theory for femtosecond laser-induced spin-transfer torques. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 115801.	1.8	17
14	Beyond a phenomenological description of magnetostriction. <i>Nature Communications</i> , 2018, 9, 388.	12.8	48
15	Discovery of topological nodal-line fermionic phase in a magnetic material GdSbTe. <i>Scientific Reports</i> , 2018, 8, 13283.	3.3	70
16	Distinct multiple fermionic states in a single topological metal. <i>Nature Communications</i> , 2018, 9, 3002.	12.8	16
17	Dissecting spin-phonon equilibration in ferrimagnetic insulators by ultrafast lattice excitation. <i>Science Advances</i> , 2018, 4, eaar5164.	10.3	91
18	Doppler broadening of neutron-induced resonances using ab initio phonon spectrum. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	5

#	ARTICLE	IF	CITATIONS
19	Speed and efficiency of femtosecond spin current injection into a nonmagnetic material. Physical Review B, 2017, 96 Tunability of the topological nodal-line semimetal phase in $ZrSiX$	3.2	52

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#	ARTICLE	IF	CITATIONS
37	Ab Initio Prediction of Surface Stability of Fluorite Materials and Experimental Verification. Journal of Physical Chemistry C, 2013, 117, 6639-6650.	3.1	24
38	Quantum Monte Carlo ionization potential and electron affinity for transition metal atoms. Chemical Physics Letters, 2013, 559, 12-17.	2.6	12
39	Ultrafast spin transport as key to femtosecond demagnetization. Nature Materials, 2013, 12, 332-336.	27.5	262
40	Terahertz spin current pulses controlled by magnetic heterostructures. Nature Nanotechnology, 2013, 8, 256-260.	31.5	476
41	Ultrafast magnetization enhancement in metallic multilayers driven by superdiffusive spin current. Nature Communications, 2012, 3, 1037.	12.8	324
42	Dynamical correlation effects in the transition probability: A study for the atoms Li to Ar. Chemical Physics Letters, 2012, 548, 1-6.	2.6	1
43	Relativistic, numerically parameterized, optimized, effective potentials for the ground state of the atoms He through Ra. Atomic Data and Nuclear Data Tables, 2011, 97, 109-133.	2.4	4
44	Relativistic quantum similarities in atoms in position and momentum spaces. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 2544-2549.	2.1	4
45	Jastrow correlated and quantum Monte Carlo calculations for the low-lying states of the carbon atom. Journal of Chemical Physics, 2011, 134, 134102.	3.0	9
46	Relativistic effects on complexity indexes in atoms in position and momentum spaces. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 3847-3853.	2.1	10
47	Quantum Monte Carlo ground state energies for the singly charged ions from Li through Ar. Journal of Chemical Physics, 2010, 133, 064102.	3.0	17
48	Near Degeneracy Effects on the Low-Lying Spectrum of the Iron Atom. Journal of Physical Chemistry A, 2010, 114, 1953-1956.	2.5	3
49	Quantum Monte Carlo ground state energies for the atoms Li through Ar. Journal of Chemical Physics, 2009, 131, 044115.	3.0	12
50	Optimized effective potential energies and ionization potentials for the atoms Li to Ra. European Physical Journal D, 2008, 50, 229-235.	1.3	8
51	Quantum Monte Carlo for 3d Transition-Metal Atoms. Journal of Physical Chemistry A, 2008, 112, 2074-2076.	2.5	11
52	Numerical-parameterized relativistic optimized effective potential for atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 3045-3056.	1.5	5
53	Numerical-parameterized optimized effective potential for atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 3575-3585.	1.5	12