Felipe H Da Jornada

List of Publications by Year
in descending order

27 papers	4,802 citations	331538 21 h-index	526166 27 g-index
27 all docs	27 docs citations	27 times ranked	6971 citing authors

#	Article	IF	Citations
1	Giant bandgap renormalization and excitonic effects in a monolayer transition metal dichalcogenide semiconductor. Nature Materials, 2014, 13, 1091-1095.	13.3	1,470
2	Optical Spectrum of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>: Many-Body Effects and Diversity of Exciton States. Physical Review Letters, 2013, 111, 216805.	2.9	1,275
3	Direct observation of the layer-dependent electronic structure in phosphorene. Nature Nanotechnology, 2017, 12, 21-25.	15.6	625
4	Screening and many-body effects in two-dimensional crystals: Monolayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2016, 93, .	3.7	298
5	Environmental Screening Effects in 2D Materials: Renormalization of the Bandgap, Electronic Structure, and Optical Spectra of Few-Layer Black Phosphorus. Nano Letters, 2017, 17, 4706-4712.	4.5	155
6	Probing the Role of Interlayer Coupling and Coulomb Interactions on Electronic Structure in Few-Layer MoSe₂ Nanostructures. Nano Letters, 2015, 15, 2594-2599.	4.5	136
7	A dielectric-defined lateral heterojunction in a monolayer semiconductor. Nature Electronics, 2019, 2, 60-65.	13.1	95
8	Nonuniform sampling schemes of the Brillouin zone for many-electron perturbation-theory calculations in reduced dimensionality. Physical Review B, 2017, 95, .	1.1	78
9	Electron-Phonon Coupling from AbAInitio Linear-Response Theory within the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>G</mml:mi><mml:mi>W</mml:mi></mml:mrow></mml:math> Method: Correlation-Enhanced Interactions and Superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Ba</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn>	2.9	70
10	Discovering and understanding materials through computation. Nature Materials, 2021, 20, 728-735.	13.3	60
11	Origins of Singlet Fission in Solid Pentacene from an abÂinitio Greenâ€™s Function Approach. Physical Review Letters, 2017, 119, 267401.	2.9	55
12	The 2021 ultrafast spectroscopic probes of condensed matter roadmap. Journal of Physics Condensed Matter, 2021, 33, 353001.	0.7	55
13	Universal slow plasmons and giant field enhancement in atomically thin quasi-two-dimensional metals. Nature Communications, 2020, 11, 1013.	5.8	53
14	Structure of the moirÃ© exciton captured by imaging its electron and hole. Nature, 2022, 603, 247-252.	13.7	51
15	Experimental measurement of the intrinsic excitonic wave function. Science Advances, 2021, 7, .	4.7	49
16	Optical absorption of interlayer excitons in transition-metal dichalcogenide heterostructures. Science, 2022, 376, 406-410.	6.0	42
17	Structure preserving parallel algorithms for solving the Bethe–Salpeter eigenvalue problem. Linear Algebra and Its Applications, 2016, 488, 148-167.	0.4	37
18	Reproducibility in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1825" altimg="si271.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi>G</mml:mi></mml:mrow><mml:mrow><mml:mn>0</mml:mn></mml:mrow> calculations for solids. Computer Physics Communications, 2020, 255, 107242.	3.0	36

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19	Low-lying excited states in crystalline perylene. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 284-289.	3.3	35
20	Large-scale GW calculations on pre-exascale HPC systems. Computer Physics Communications, 2019, 235, 187-195.	3.0	35
21	Accelerating GW-Based Energy Level Alignment Calculations for Moleculeâ€“Metal Interfaces Using a Substrate Screening Approach. Journal of Chemical Theory and Computation, 2019, 15, 4218-4227.	2.3	34
22	Numerical integration for ab initio many-electron self energy calculations within the GW approximation. Journal of Computational Physics, 2015, 286, 1-13.	1.9	15
23	Low rank approximation in G 0 W 0 calculations. Science China Mathematics, 2016, 59, 1593-1612.	0.8	14
24	Static subspace approximation for the evaluation of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>G</mml:mi><mml:mn>0</mml:mn></mml:msub><mml:m quasiparticle energies within a sum-over-bands approach. Physical Review B, 2019, 99, .	0.1	13
25	A Structure Preserving Lanczos Algorithm for Computing the Optical Absorption Spectrum. SIAM Journal on Matrix Analysis and Applications, 2018, 39, 683-711.	0.7	12
26	Quasiparticle energies and optical excitations of 3C-SiC divacancy from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>G</mml:mi><mml:mi>W</mml:mi></mml:mrow></mml:m and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>G</mml:mi><mml:mi>W</mml:mi></mml:mrow></mml:m plus Bethe-Salpeter equationÂcalculations. Physical Review Materials, 2022, 6, .	0.9	6
27	Identifying Hidden Intracell Symmetries in Molecular Crystals and Their Impact for Multiexciton Generation. Journal of Physical Chemistry Letters, 2022, 13, 747-753.	2.1	3