

Matteo Calandra

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	QUANTUM ESPRESSO: a modular and open-source software project for quantum simulations of materials. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 395502.	1.8	18,183
2	Advanced capabilities for materials modelling with Quantum ESPRESSO. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 465901.	1.8	4,303
3	Phonon-mediated superconductivity in graphene by lithium deposition. <i>Nature Physics</i> , 2012, 8, 131-134.	16.7	431
4	High-Pressure Hydrogen Sulfide from First Principles: A Strongly Anharmonic Phonon-Mediated Superconductor. <i>Physical Review Letters</i> , 2015, 114, 157004.	7.8	377
5	Colloquium: Saturation of electrical resistivity. <i>Reviews of Modern Physics</i> , 2003, 75, 1085-1099.	45.6	369
6	Exponential Localization of Wannier Functions in Insulators. <i>Physical Review Letters</i> , 2007, 98, 046402.	7.8	297
7	Anharmonic free energies and phonon dispersions from the stochastic self-consistent harmonic approximation: Application to platinum and palladium hydrides. <i>Physical Review B</i> , 2014, 89, .	3.2	264
8	Chemically exfoliated single-layer MoS_2 . Stability, lattice dynamics, and catalytic adsorption from first principles. <i>Physical Review B</i> , 2013, 88, .	3.2	240
9	Theoretical Explanation of Superconductivity in Ca_6C_6 . <i>Physical Review Letters</i> , 2005, 95, 237002.	7.8	223
10	Quantum hydrogen-bond symmetrization in the superconducting hydrogen sulfide system. <i>Nature</i> , 2016, 532, 81-84.	27.8	222
11	Density functional perturbation theory for gated two-dimensional heterostructures: Theoretical developments and application to flexural phonons in graphene. <i>Physical Review B</i> , 2017, 96, .	3.2	198
12	Anomalous High-Temperature Superconductivity in YH_{6-x} . <i>Advanced Materials</i> , 2021, 33, e2006832.	21.0	196
13	Quantum crystal structure in the 250-kelvin superconducting lanthanum hydride. <i>Nature</i> , 2020, 578, 66-69.	27.8	193
14	Electron-phonon coupling and electron self-energy in electron-doped graphene: Calculation of angular-resolved photoemission spectra. <i>Physical Review B</i> , 2007, 76, .	3.2	188
15	Effect of dimensionality on the charge-density wave in few-layer NbSe_3 . <i>Physical Review B</i> , 2009, 80, .	3.2	184
16	First-Principles Theory of Anharmonicity and the Inverse Isotope Effect in Superconducting Palladium-Hydride Compounds. <i>Physical Review Letters</i> , 2013, 111, 177002.	7.8	173
17	Charge-Density Wave and Superconducting Dome in TiSe_2 . <i>Physical Review Letters</i> , 2011, 106, 196406.	7.8	159
18	Two-dimensional Fröhlich interaction in transition-metal dichalcogenide monolayers: Theoretical modeling and first-principles calculations. <i>Physical Review B</i> , 2016, 94, .	3.2	155

#	ARTICLE	IF	CITATIONS
19	Numerical study of the two-dimensional Heisenberg model using a Green function Monte Carlo technique with a fixed number of walkers. Physical Review B, 1998, 57, 11446-11456. First-principles calculations of x-ray absorption in a scheme based on ultrasoft pseudopotentials: From H to Si : quartz to high-temperature SiO_2 . Physical Review B, 2009, 80, .	3.2	154
20	First-principles calculations of x-ray absorption in a scheme based on ultrasoft pseudopotentials: From H to Si : quartz to high-temperature SiO_2 . Physical Review B, 2009, 80, .	3.2	150
21	Electron-Phonon Interactions and the Intrinsic Electrical Resistivity of Graphene. Nano Letters, 2014, 14, 1113-1119.	9.1	149
22	Phonon Dispersion and Lifetimes in MgB_2 . Physical Review Letters, 2003, 90, 095506.	7.8	139
23	First-principles theory of field-effect doping in transition-metal dichalcogenides: Structural properties, electronic structure, Hall coefficient, and electrical conductivity. Physical Review B, 2015, 91, .	3.2	127
24	Breakdown of Optical Phonons Splitting in Two-Dimensional Materials. Nano Letters, 2017, 17, 3758-3763.	9.1	127
25	Wannier interpolation of the electron-phonon matrix elements in polar semiconductors: Polar-optical coupling in GaAs . Physical Review B, 2015, 92, .	3.2	126
26	Dissociation products and structures of solid H_2S at strong compression. Physical Review B, 2016, 93, .	3.2	119
27	Effects of magnetism and doping on the electron-phonon coupling in BaFe_2As_2 . Physical Review B, 2010, 82, .	3.2	119
28	Adiabatic and nonadiabatic phonon dispersion in a Wannier function approach. Physical Review B, 2010, 82, .	3.2	108
29	Phonon-limited resistivity of graphene by first-principles calculations: Electron-phonon interactions, strain-induced gauge field, and Boltzmann equation. Physical Review B, 2014, 90, .	3.2	105
30	Second-order structural phase transitions, free energy curvature, and temperature-dependent anharmonic phonons in the self-consistent harmonic approximation: Theory and stochastic implementation. Physical Review B, 2017, 96, .	3.2	100
31	Strong anharmonicity induces quantum melting of charge density wave in Sr_2RuO_4 under pressure. Physical Review B, 2015, 92, .	3.2	98
32	Evidence for Flat Bands near the Fermi Level in Epitaxial Rhombohedral Multilayer Graphene. ACS Nano, 2015, 9, 5432-5439.	14.6	92
33	Phonon Collapse and Second-Order Phase Transition in Thermoelectric SnSe. Physical Review Letters, 2019, 122, 075901. Angular dependence of core hole screening in LiCoO_2 . Physical Review Letters, 2019, 122, 075901.	7.8	92
34	Anharmonic phonons in few-layer MoS_2 . Physical Review B, 2013, 87, .	3.2	90
35	Anharmonic phonons in few-layer MoS_2 . Raman spectroscopy of ultralow energy compression and shear modes. Physical Review B, 2013, 87, .	3.2	90
36	Anharmonic phonon frequency shift in MgB_2 . Physical Review B, 2003, 68, .	3.2	88

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37	Density functional theory description of hole-trapping in SiO ₂ : A self-interaction-corrected approach. Physical Review B, 2005, 71, .		3.2	86
38	Superconductivity from doping boron icosahedra. Physical Review B, 2004, 69, .		3.2	84
39	High- $\langle \text{mml:math} \text{ xmlns:mml= "http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle T \langle / \text{mml:mi} \rangle \langle \text{mml:mi} \rangle c \langle / \text{mml:mi} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:math} \rangle$ Superconductivity in Superhard Diamondlike $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle BC \langle / \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 5 \langle / \text{mml:mn} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:math} \rangle$. Physical Review Letters, 2006, 101, 016401.	7.8	81	
40	Intercalant and Intermolecular Phonon Assisted Superconductivity in K-Doped Picene. Physical Review Letters, 2011, 107, 137006.		7.8	79
41	Giant Nonadiabatic Effects in Layer Metals: Raman Spectra of Intercalated Graphite Explained. Physical Review Letters, 2008, 100, 226401.		7.8	75
42	Anharmonic effects in atomic hydrogen: Superconductivity and lattice dynamical stability. Physical Review B, 2016, 93, .		3.2	75
43	Intrinsic charge transfer gap in NiO from $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:mtext} \rangle Ni \langle / \text{mml:mtext} \rangle \langle \text{mml:mtext} \rangle \text{~\%} \langle / \text{mml:mtext} \rangle \langle \text{mml:mi} \rangle K \langle / \text{mml:mi} \rangle \langle / \text{mml:math} \rangle$ ^{3.2} edge x-ray absorption spectroscopy. Physical Review B, 2009, 79, .		72	
44	The stochastic self-consistent harmonic approximation: calculating vibrational properties of materials with full quantum and anharmonic effects. Journal of Physics Condensed Matter, 2021, 33, 363001.		1.8	70
45	Anharmonic suppression of charge density waves in $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle H \langle / \text{mml:mi} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:math} \rangle$ -NbS $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:math} \rangle$. Physical Review B, 2012, 86, .	3.2	66	
46	First-principles calculations of phonon frequencies, lifetimes, and spectral functions from weak to strong anharmonicity: The example of palladium hydrides. Physical Review B, 2015, 91, .		3.2	66
47	Electronic band structure of Two-Dimensional $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="block" style="text-align:center; margin-left: auto; margin-right: auto; font-size: 1em;">mathvariant="normal" \rangle WS \langle / \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:math} \rangle$ /Graphene van der Waals Heterostructures. Physical Review B, 2018, 97, .		3.2	63
48	Strong anharmonicity in the phonon spectra of PbTe and SnTe from first principles. Physical Review B, 2018, 97, .		3.2	63
49	Quantum Enhancement of Charge Density Wave in NbS ₂ in the Two-Dimensional Limit. Nano Letters, 2019, 19, 3098-3103.		9.1	62
50	Projector augmented wave calculation of x-ray absorption spectra at the $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="block" style="text-align:center; margin-left: auto; margin-right: auto; font-size: 1em;">mathvariant="normal" \rangle L \langle / \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle \langle \text{mml:mo} \rangle , \langle / \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 3 \langle / \text{mml:mn} \rangle$ Physical Review B, 2013, 87, .		3.2	59
51	Charge Fluctuations Close to Phase Separation in the Two-Dimensional J Model. Physical Review Letters, 1998, 81, 5185-5188.		7.8	58
52	Possibility of superconductivity in graphite intercalated with alkaline earths investigated with density functional theory. Physical Review B, 2006, 74, .		3.2	57
53	Electronic structure of heavily doped graphene: The role of foreign atom states. Physical Review B, 2007, 76, .		3.2	57
54	Electronic and vibrational properties of $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="block" style="text-align:center; margin-left: auto; margin-right: auto; font-size: 1em;">mathvariant="normal" \rangle TiSe \langle / \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle / \text{mml:mn} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:math} \rangle$ the charge-density-wave phase from first principles. Physical Review B, 2015, 92, .		3.2	55

#	ARTICLE		IF	CITATIONS
55	Pressure and stress tensor of complex anharmonic crystals within the stochastic self-consistent harmonic approximation. <i>Physical Review B</i> , 2018, 98, .		3.2	56
56	Critical Role of the Exchange Interaction for the Electronic Structure and Charge-Density-Wave Formation in TiSe_2 . <i>Physical Review Letters</i> , 2017, 119, 176401.		7.8	55
57	Electron-phonon coupling and phonon self-energy in MgB ₂ : Interpretation of MgB ₂ Raman spectra. <i>Physical Review B</i> , 2005, 71, .		3.2	53
58	Phonon-Assisted Magnetic Mott-Insulating State in the Charge Density Wave Phase of Single-Layer Graphene. <i>Physical Review Letters</i> , 2018, 121, 026401.		7.8	52
59	Magnetic gap opening in rhombohedral-stacked multilayer graphene from first principles. <i>Physical Review B</i> , 2017, 95, .		3.2	48
60	Anharmonic and non-adiabatic effects in MgB ₂ : Implications for the isotope effect and interpretation of Raman spectra. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 456, 38-44.		1.2	47
61	Electrical resistivity at large temperatures: Saturation and lack thereof. <i>Physical Review B</i> , 2002, 66, .		3.2	46
62	Dynamical properties of a strongly correlated model for quarter-filled layered organic molecular crystals. <i>Physical Review B</i> , 2003, 68, .		3.2	46
63	Electrochemical doping of few-layer ZrNCl from first principles: Electronic and structural properties in field-effect configuration. <i>Physical Review B</i> , 2014, 89, .		3.2	46
64	Flat electronic bands in long sequences of rhombohedral-stacked graphene. <i>Physical Review B</i> , 2018, 97, .		3.2	46
65	Weak anharmonic effects in MgB ₂ : A comparative inelastic x-ray scattering and Raman study. <i>Physical Review B</i> , 2007, 75, .		3.2	41
66	Metal-insulator transition and charge ordering in the extended Hubbard model at one-quarter filling. <i>Physical Review B</i> , 2002, 66, .		3.2	40
67	Black metal hydrogen above 360 GPa driven by proton quantum fluctuations. <i>Nature Physics</i> , 2021, 17, 63-67.		16.7	40
68	High-pressure phase diagram of hydrogen and deuterium sulfides from first principles: Structural and vibrational properties including quantum and anharmonic effects. <i>Physical Review B</i> , 2018, 97, .		3.2	38
69	Formation of hot-electron ensembles quasiequilibrated in momentum space by ultrafast momentum scattering of highly excited hot electrons photojected into the Γ valley of GaAs. <i>Physical Review B</i> , 2016, 93, .		3.2	37
70	Weak Dimensionality Dependence and Dominant Role of Ionic Fluctuations in the Charge-Density-Wave Transition of NbSe_3 . <i>Physical Review Letters</i> , 2020, 125, 106101.		7.8	37
71	Electronic structure and magnetic properties of few-layer Cr ₂ Ge ₂ Te ₆ : the key role of nonlocal electron-electron interaction effects. <i>2D Materials</i> , 2019, 6, 045042.		4.4	36
72	Search for highT _c layered structures: The case of LiB. <i>Physical Review B</i> , 2007, 75, .		3.2	35

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73	Two-Dimensional Analysis of the Double-Resonant 2D Raman Mode in Bilayer Graphene. <i>Physical Review Letters</i> , 2014, 113, 187401.	7.8	35
74	Effect of electron doping on lattice instabilities in single-layer mml:math $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\langle \text{mml:mrow} \rangle$ $\langle \text{mml:mn} \rangle 1$ $\langle / \text{mml:mn} \rangle$ $\langle \text{mml:mi} \rangle H$ $\langle / \text{mml:mi} \rangle$ mml:math <i>Physical Review B</i> , 2017, 95, .		
75	Strong anharmonicity and high thermoelectric efficiency in high-temperature SnS from first principles. <i>Physical Review B</i> , 2019, 100, .	3.2	35
76	Polarized Resonant Inelastic X-Ray Scattering as an Ultrafine Probe of Excited States of La ₂ CuO ₄ . <i>Physical Review Letters</i> , 2006, 96, 077006.	7.8	34
77	From antiferromagnetism to d-wave superconductivity in the two-dimensional t-J model. <i>Physical Review B</i> , 2000, 61, R11894-R11897.	3.2	30
78	K-edge x-ray absorption spectra in transition-metal oxides beyond the single-particle approximation: Shake-up many-body effects. <i>Physical Review B</i> , 2012, 86, .	3.2	30
79	Thermodynamic stabilities of ternary metal borides: An <i>ab initio</i> guide for synthesizing layered superconductors. <i>Physical Review B</i> , 2008, 78, .	3.2	29
80	Possible phase separation and weak localization in the absence of a charge-density wave in single-phase mml:math $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\langle \text{mml:mrow} \rangle$ $\langle \text{mml:mn} \rangle 1$ $\langle / \text{mml:mn} \rangle$ $\langle \text{mml:mi} \rangle T$ $\langle / \text{mml:mi} \rangle$ mml:mrow $\langle \text{mml:math}$ $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\langle \text{mml:msub} \rangle$ $\langle \text{mml:mi} \rangle V_S$ $\langle / \text{mml:mi} \rangle$ $\langle \text{mml:mn} \rangle 2$ $\langle / \text{mml:mn} \rangle$ $\langle / \text{mml:msub} \rangle$ $\langle / \text{mml:math}$ <i>Physical Review B</i> , 2014, 89, .		
81	van der Waals driven anharmonic melting of the 3D charge density wave in VSe ₂ . <i>Nature Communications</i> , 2021, 12, 598.	12.8	28
82	Charge density wave and spin 1/2 insulating state in single layer 1T-NbS ₂ . <i>2D Materials</i> , 2019, 6, 035041.	4.4	27
83	Anharmonic enhancement of superconductivity in metallic molecular Cmca $\text{C}_{10}\text{H}_{16}\text{N}_4$ hydrogen at high pressure: a first-principles study. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 494001.	4.8	26
84	Violation of Ioffe-Regel condition but saturation of resistivity of the high- T _c cuprates. <i>Europhysics Letters</i> , 2003, 61, 88-94.	2.0	25
85	Local and nonlocal electron-phonon couplings in K mml:math $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ $\text{display}=\text{"inline"}$ $\langle \text{mml:msub} \rangle$ $\langle \text{mml:mrow} \rangle$ $\langle \text{mml:mn} \rangle 3$ $\langle / \text{mml:mn} \rangle$ $\langle / \text{mml:msub} \rangle$ $\langle / \text{mml:math} \rangle$ picene and the effect of metallic screening. <i>Physical Review B</i> , 2012, 86, .	3.2	25
86	Anharmonicity and Doping Melt the Charge Density Wave in Single-Layer TiSe ₂ . <i>Nano Letters</i> , 2020, 20, 4809-4815.	9.1	24
87	Understanding the Photomagnetic Behavior in Copper Octacyanomolybdates. <i>Journal of Physical Chemistry A</i> , 2012, 116, 8678-8683.	2.5	23
88	Density-functional calculation of static screening in two-dimensional materials: The long-wavelength dielectric function of graphene. <i>Physical Review B</i> , 2015, 91, .	3.2	21
89	Saturation of Electrical Resistivity in Metals at Large Temperatures. <i>Physical Review Letters</i> , 2001, 87, 266601.	7.8	20
90	Phonon softening in $\text{Na}_x\text{CoO}_2\text{H}_2\text{O}$: Implications for the Fermi surface topology and the superconducting state. <i>Physical Review B</i> , 2006, 74, .	3.2	19

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91	First-principles determination of the Raman fingerprint of rhombohedral graphite. <i>Physical Review Materials</i> , 2017, 1, .	2.4	19
92	X-ray magnetic and natural circular dichroism from first principles: Calculation of $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle K \langle / \text{mml:mi} \rangle \langle / \text{mml:math} \rangle$ - and $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle L \langle / \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 1 \langle / \text{mml:mn} \rangle \langle / \text{mml:msub} \rangle \langle / \text{mml:math} \rangle$ edge spectra. <i>Physical Review B</i> , 2017, 96, .	3.2	18
93	Misfit Layer Compounds: A Platform for Heavily Doped 2D Transition Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2021, 31, 2007706.	14.9	17
94	Theory of the thickness dependence of the charge density wave transition in 1-TiTe_2 . <i>2D Materials</i> , 2020, 7, 045032.	4.4	17
95	Electronic structure of pristine and Ni-substituted $\text{La}_3\text{Fe}_5\text{O}_9$ from near edge x-ray absorption fine structure experiments and first-principles simulations. <i>Physical Review B</i> , 2008, 78, .	3.6	17
96	at the verge of a simultaneous order-disorder and lattice-softening transition in superconducting CaC_6 . <i>Physical Review B</i> , 2008, 78, .	3.2	16
97	Charge density waves go nano. <i>Nature Nanotechnology</i> , 2015, 10, 737-738.	31.5	16
98	Atomic and electronic structure of trilayer graphene/SiC(0001): Evidence of Strong Dependence on Stacking Sequence and charge transfer. <i>Scientific Reports</i> , 2016, 6, 33487.	3.3	16
99	Energy relaxation mechanism of hot-electron ensembles in GaAs: Theoretical and experimental study of its temperature dependence. <i>Physical Review B</i> , 2018, 97, .	3.2	16
100	Chiral Spin Texture in the Charge-Density-Wave Phase of the Correlated Metallic $\text{Pb}_{1-x}\text{Si}_x$. <i>Physical Review B</i> , 2010, 82, .	7.8	15
101	Neutron scattering study of the high-energy graphitic phonons in superconducting BaC_6 . <i>Physical Review B</i> , 2011, 83, .	3.2	14
102	Comparative study of the phonons in nonsuperconducting BaC_6 and superconducting CaC_6 . <i>Physical Review B</i> , 2011, 84, .	3.2	14
103	Universal Increase in the Superconducting Critical Temperature of Two-Dimensional Semiconductors at Low Doping by the Electron-Electron Interaction. <i>Physical Review Letters</i> , 2015, 114, 077001.	7.8	14
104	Quantum effects in muon spin spectroscopy within the stochastic self-consistent harmonic approximation. <i>Physical Review Materials</i> , 2019, 3, .	2.4	13
105	Origin of superconductivity of CaC_6 and of other intercalated graphites. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 3458-3463.	1.5	12
106	Phonon dispersion and low-energy anomaly in CaC_6 . <i>Physical Review B</i> , 2010, 81, .	3.2	12
107	Superconductivity in metal-coated graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2544-2548.	1.5	12
108	Long-Range Rhombohedral-Stacked Graphene through Shear. <i>Nano Letters</i> , 2020, 20, 5017-5023.	9.1	12

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109	Gate-Tunable Magnetism and Giant Magnetoresistance in Suspended Rhombohedral-Stacked Few-Layer Graphene. <i>Nano Letters</i> , 2022, 22, 5094-5099.	9.1	12
110	Electronic thermal conductivity at high temperatures: Violation of the Wiedemann-Franz law in narrow-band metals. <i>Physical Review B</i> , 2006, 74, .	3.2	11
111	Multi-scale theoretical approach to X-ray absorption spectra in disordered systems: an application to the study of Zn(ii) in water. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 24775-24782.	2.8	10
112	Field-effect-driven half-metallic multilayer graphene. <i>Physical Review B</i> , 2018, 98, .	3.2	10
113	Thermal conductivity of Bi ₂ Se ₃ from bulk to thin films: Theory and experiment. <i>Physical Review B</i> , 2020, 101, .	3.2	10
114	Intrinsic Vibrational Angular Momentum from Nonadiabatic Effects in Noncollinear Magnetic Molecules. <i>Physical Review Letters</i> , 2021, 126, 225703.	7.8	10
115	Dominant Role of Quantum Anharmonicity in the Stability and Optical Properties of Infinite Linear Acetylenic Carbon Chains. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10339-10345. Light-Tunable Charge Density Wave Orders in MoTe_2 and WTe_2 Single Layers. <i>Physical Review Letters</i> , 2021, 127, 257401.	4.6	10
116	Determination of scattering time and of valley occupation in transition-metal dichalcogenides doped by field effect. <i>Physical Review B</i> , 2016, 93, .	3.2	9
117	2D Monolayer of the 1Tâ€™ Phase of Alloyed WS ₂ from Colloidal Synthesis. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11058-11065.	3.1	9
118	Electric field exfoliation and high-TC superconductivity in field-effect hole-doped hydrogenated diamond (111). <i>Applied Surface Science</i> , 2019, 496, 143709.	6.1	8
119	Electronic structure of TiSe_2 from a quasi-self-consistent approach. <i>Physical Review B</i> , 2021, 103, .	3.2	8
120	Lattice dynamics of photoexcited insulators from constrained density-functional perturbation theory. <i>Physical Review B</i> , 2021, 104, .	3.2	8
121	Publisher's Note: Electronic structure of heavily doped graphene: The role of foreign atom states [Phys. Rev. B76, 161406 (2007)]. <i>Physical Review B</i> , 2007, 76, .	3.2	7
122	Comment on "Electronic Structure of Superconducting KC ₈ and Nonsuperconducting LiC ₆ Graphite Intercalation Compounds: Evidence for a Graphene-Sheet-Driven Superconducting State". <i>Physical Review Letters</i> , 2012, 108, 149701; discussion 149702.	7.8	7
123	Ab-initio energetics of graphite and multilayer graphene: stability of Bernal versus rhombohedral stacking. <i>2D Materials</i> , 2021, 8, 035006.	4.4	7
124	Hybrid-functional electronic structure of multilayer graphene. <i>Physical Review B</i> , 2020, 101, .	3.2	7

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CITATIONS

127	Spin susceptibility and electron-phonon coupling of two-dimensional materials by range-separated hybrid density functionals: Case study of $\text{Li}_{x}\text{HfNCl}_3$	Physical Review B, 2016, 94, .	3.2	5
128	High-temperature superconductivity in weakly electron-doped HfNCl_3	Physical Review B, 2017, 96, .		
129	<i>i>Ab initio</i> study of the LiH phase diagram at extreme pressures and temperatures.	Physical Review B, 2019, 99, .	3.2	5
130	Calandra and Mauri Reply.	Physical Review Letters, 2014, 112, 049702.	7.8	4
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