

# Raffaello Bianco

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

1,338  
citations

430874

18  
h-index

677142

22  
g-index

22  
all docs

22  
docs citations

22  
times ranked

1434  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomalous High-Temperature Superconductivity in $\text{YH}_6$ . <i>Advanced Materials</i> , 2021, 33, e2006832.	21.0	196
2	Strong anharmonic and quantum effects in $\text{P}_3\text{N}_3$ under high pressure: A first-principles study. <i>Physical Review B</i> , 2021, 103.	3.2	19
3	The stochastic self-consistent harmonic approximation: calculating vibrational properties of materials with full quantum and anharmonic effects. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 363001.	1.8	70
4	van der Waals driven anharmonic melting of the 3D charge density wave in $\text{VSe}_2$ . <i>Nature Communications</i> , 2021, 12, 598.	12.8	28
5	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.	4.6	10
6	Quantum anharmonic enhancement of superconductivity in $\text{Pb}_{1-x}\text{Sb}_x\text{S}$ at high pressures: A first-principles study. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	9
7	Weak Dimensionality Dependence and Dominant Role of Ionic Fluctuations in the Charge-Density-Wave Transition of $\text{NbSe}_2$ . <i>Physical Review Letters</i> , 2020, 125, 106101.	7.8	37
8	Anharmonicity and Doping Melt the Charge Density Wave in Single-Layer $\text{TiSe}_2$ . <i>Nano Letters</i> , 2020, 20, 4809-4815.	9.1	24
9	Quantum crystal structure in the 250-kelvin superconducting lanthanum hydride. <i>Nature</i> , 2020, 578, 66-69.	27.8	193
10	Theory of the thickness dependence of the charge density wave transition in $1\text{-T-TiTe}_2$ . <i>2D Materials</i> , 2020, 7, 045032.	4.4	17
11	Quantum Enhancement of Charge Density Wave in $\text{NbS}_2$ in the Two-Dimensional Limit. <i>Nano Letters</i> , 2019, 19, 3098-3103.	9.1	62
12	Phonon Collapse and Second-Order Phase Transition in Thermoelectric $\text{SnSe}$ . <i>Physical Review Letters</i> , 2019, 122, 075901.	7.8	92
13	Strong anharmonicity and high thermoelectric efficiency in high-temperature $\text{SnS}$ from first principles. <i>Physical Review B</i> , 2019, 100, .	3.2	35
14	Strong anharmonicity in the phonon spectra of $\text{PbTe}$ and $\text{SnTe}$ from first principles. <i>Physical Review B</i> , 2018, 97, .	3.2	63
15	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
16	Second-order structural phase transitions, free energy curvature, and temperature-dependent anharmonic phonons in the self-consistent harmonic approximation: Theory and stochastic implementation. <i>Physical Review B</i> , 2017, 96, .	3.2	100
17	Critical Role of the Exchange Interaction for the Electronic Structure and Charge-Density-Wave Formation in $\text{TiSe}_2$ . <i>Physical Review Letters</i> , 2017, 119, 176401.	7.8	55
18	Orbital magnetization in insulators: Bulk versus surface. <i>Physical Review B</i> , 2016, 93, .	3.2	10

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19	Electronic and vibrational properties of $\text{TiSe}_2$ the charge-density-wave phase from first principles. Physical Review B, 2015, 92, .	3.2	21
20	How disorder affects the Berry-phase anomalous Hall conductivity: A reciprocal-space analysis. Physical Review B, 2014, 90, .	3.2	21
21	Orbital Magnetization as a Local Property. Physical Review Letters, 2013, 110, 087202.	7.8	48
22	Mapping topological order in coordinate space. Physical Review B, 2011, 84, .	3.2	155