

# François Bottin

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

3,929  
citations

567281

15  
h-index

752698

20  
g-index

20  
all docs

20  
docs citations

20  
times ranked

4322  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tin (Sn) at high pressure: Review, X-ray diffraction, DFT calculations, and Gibbs energy modeling. Journal of Alloys and Compounds, 2022, 919, 165675.	5.5	7
2	Sound velocities and thermodynamical properties of hcp iron at high pressure and temperature. Journal of Physics Condensed Matter, 2022, 34, 344002.	1.8	6
3	Tuneable correlated disorder in alloys. Physical Review Materials, 2021, 5, .	2.4	16
4	The Abinitproject: Impact, environment and recent developments. Computer Physics Communications, 2020, 248, 107042.	7.5	369
5	Phase transitions and equation of state of zirconium under high pressure. Physical Review B, 2020, 102, .	3.2	16
6	ABINIT: Overview and focus on selected capabilities. Journal of Chemical Physics, 2020, 152, 124102.	3.0	179
7	a-TDEP: Temperature Dependent Effective Potential for Abinit " Lattice dynamic properties including anharmonicity. Computer Physics Communications, 2020, 254, 107301.	7.5	18
8	Thermodynamic stabilization of $U\text{Mo}$ alloys: Effect of Mo content and temperature. Physical Review B, 2020, 101, .	3.2	18
9	<i>Ab initio</i> calculations of the B1-B2 phase transition in MgO. Physical Review B, 2019, 99, .	3.2	30
10	Iron under conditions close to the $\epsilon$ - $\gamma$ - $\mu$ triple point. Applied Physics Letters, 2018, 112, .	3.3	17
11	Phonon spectra of plutonium at high temperatures. Physical Review B, 2017, 95, .	3.2	23
12	High-temperature and high-pressure phase transitions in uranium. Physical Review B, 2017, 95, .	3.2	34
13	Thermal evolution of vibrational properties of $U$ . Physical Review B, 2015, 92, .	3.2	25
14	High pressure-temperature phase diagram and equation of state of titanium. Physical Review B, 2015, 91, .	3.2	40
15	ABINIT: First-principles approach to material and nanosystem properties. Computer Physics Communications, 2009, 180, 2582-2615.	7.5	2,297
16	Large-scale ab initio calculations based on three levels of parallelization. Computational Materials Science, 2008, 42, 329-336.	3.0	156
17	Implementation of the projector augmented-wave method in the ABINIT code: Application to the study of iron under pressure. Computational Materials Science, 2008, 42, 337-351.	3.0	484
18	$SrTi_3O_3$ substrates capped with a GaAs monolayer: An <i>ab initio</i> study. Physical Review B, 2007, 76, .	3.2	10

#	ARTICLE	IF	CITATIONS
19	Facetting and $(n\tilde{A}-1)$ reconstructions of SrTiO <sub>3</sub> (110) surfaces. Surface Science, 2005, 574, 65-76.	1.9	26
20	Stability and electronic structure of the $(1\tilde{A}-1)$ SrTiO <sub>3</sub> (110) polar surfaces by first-principles calculations. Physical Review B, 2003, 68, .	3.2	158