

# Antia S Botana

## List of Publications by Year in descending order

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56  
papers

1,757  
citations

257450

24  
h-index

276875

41  
g-index

56  
all docs

56  
docs citations

56  
times ranked

1790  
citing authors

#	ARTICLE	IF	CITATIONS
1	Large orbital polarization in a metallic square-planar nickelate. <i>Nature Physics</i> , 2017, 13, 864-869.	16.7	135
2	Electronic structure and magnetism of transition metal dihalides: Bulk to monolayer. <i>Physical Review Materials</i> , 2019, 3, .	2.4	118
3	Superconductivity in a quintuple-layer square-planar nickelate. <i>Nature Materials</i> , 2022, 21, 160-164.	27.5	117
4	Evidence for a single-layer van der Waals multiferroic. <i>Nature</i> , 2022, 602, 601-605.	27.8	104
5	Large anomalous Hall effect in the chiral-lattice antiferromagnet CoNb <sub>3</sub> S <sub>6</sub> . <i>Nature Communications</i> , 2018, 9, 3280.	12.8	102
6	Many-Body Electronic Structure of $\text{NdNiO}_2$ and $\text{CaCuO}_2$ . <i>Physical Review X</i> , 2020, 10, .	8.9	89
7	Moiré Skyrmions and Chiral Magnetic Phases in Twisted CrX <sub>3</sub> (X = I, Br, and Cl) Bilayers. <i>Nano Letters</i> , 2021, 21, 6633-6639.	9.1	69
8	Strong Superexchange in a Nickelate Revealed by Resonant Inelastic X-Ray Scattering. <i>Physical Review Letters</i> , 2021, 126, 087001.	7.9	51
9	$\text{Co}_6$ . <i>Physical Review Letters</i> , 2021, 126, 087001.	3.2	49
10	Origin of the extremely large magnetoresistance in the semimetal YSb. <i>Physical Review B</i> , 2017, 96, .	3.2	49
11	Spin Stripe Order in a Square Planar Trilayer Nickelate. <i>Physical Review Letters</i> , 2019, 122, 247201.	7.8	48
12	Electronic structure and magnetism in infinite-layer nickelates $\text{R}_2\text{NiO}_3$ ( $\text{R} = \text{Ca, Sr, Ba, La, Pr, Tb, Dy, Ho, Er, Tm, Yb, Lu}$ ). <i>Physical Review B</i> , 2016, 94, .	3.2	42
13	Electronic structure of CrN: A comparison between different exchange correlation potentials. <i>Physical Review B</i> , 2012, 85, .	3.2	42
14	Nickelate Superconductors: An Ongoing Dialog between Theory and Experiments. <i>Journal of Experimental and Theoretical Physics</i> , 2021, 132, 618-627.	0.9	41
15	Synthesis, engineering, and theory of 2D van der Waals magnets. <i>Applied Physics Reviews</i> , 2021, 8, .	11.3	41
16	Charge ordering in $\text{Ni}_4\text{La}_4$ . <i>Physical Review B</i> , 2016, 94, .	3.2	40
17	Reaching the Excitonic Limit in 2D Janus Monolayers by In Situ Deterministic Growth. <i>Advanced Materials</i> , 2022, 34, e2106222.	21.0	39
18	Separation of electron and hole dynamics in the semimetal LaSb. <i>Physical Review B</i> , 2017, 96, .	3.2	37

#	ARTICLE	IF	CITATIONS
19	Electron doped layered nickelates: Spanning the phase diagram of the cuprates. Physical Review Materials, 2017, 1, .	2.4	37
20	Magnetotransport of single crystalline YSb. Journal of Physics Condensed Matter, 2016, 28, 235601.	1.8	36
21	Comparative many-body study of $\text{PrO}_8$ and $\text{NdNiO}_2$ in the $\text{PrO}_8$ and $\text{NdNiO}_2$ systems. Physical Review Letters, 2018, 121, 087201.	3.2	36
22	Tuning the Van Hove singularities in $\text{AV}_3\text{Sb}_5$ . Physical Review Letters, 2018, 121, 087201.		

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37	Layered palladates and their relation to nickelates and cuprates. <i>Physical Review Materials</i> , 2018, 2, .	2.4	13
38	Low Valence Nickelates: Launching the Nickel Age of Superconductivity. <i>Frontiers in Physics</i> , 2022, 9, .	2.1	13
39	Conducting states caused by a surface electric dipole in CrN(001) very thin films. <i>Physical Review B</i> , 2013, 87, .	3.2	12
40	Anisotropic angular magnetoresistance and Fermi surface topology of the candidate novel topological metal $\text{Pd}_{3\text{Sn}}$ . <i>Physical Review Materials</i> , 2018, 2, .	2.4	12
41	Copper Vacancies and Heavy Holes in the Two-Dimensional Semiconductor $\text{KCu}_3\text{Se}_2$ . <i>Chemistry of Materials</i> , 2017, 29, 6114-6121.	6.7	10
42	Correlated electronic structure of a quintuple-layer nickelate. <i>Physical Review B</i> , 2022, 105, .	3.2	10
43	Steeplike metamagnetic transitions in a honeycomb lattice antiferromagnet $\text{Tb}_2\text{K}$ . <i>Physical Review Materials</i> , 2019, 3, .	2.4	10
44	Visualizing the out-of-plane electronic dispersions in an intercalated transition metal dichalcogenide. <i>Physical Review B</i> , 2022, 105, .	3.2	9
45	Synthesis and electronic properties of $\text{Nd}_3\text{Ni}_3\text{O}_7$ Ruddlesden-Popper nickelate thin films. <i>Physical Review Materials</i> , 2022, 6, .	2.4	9
46	Dielectric response of electron-doped ionic superconductor $\text{Li}_x\text{ZrNiCl}$ . <i>Physical Review B</i> , 2014, 90, .	3.2	6
47	Nitride multilayers as a platform for parallel two-dimensional electron-hole gases: $\text{MgO}/\text{ScN}(111)$ . <i>Physical Review B</i> , 2016, 93, .	3.2	6
48	Spin quenching assisted by a strongly anisotropic compression behavior in MnP. <i>New Journal of Physics</i> , 2018, 20, 023012.	2.9	5
49	$\text{KCu}_7\text{P}_3$ : A Two-Dimensional Noncentrosymmetric Metallic Pnictide. <i>Inorganic Chemistry</i> , 2019, 58, 10201-10208.	4.0	5
50	Electronic structure of $\text{CuTeO}_4$ and its relationship to cuprates. <i>Physical Review B</i> , 2017, 95, .	3.2	5
51	Role of chemical pressure on the electronic and magnetic properties of the spin-kagome mineral averievite. <i>Physical Review B</i> , 2020, 102, .	3.2	5
52	Electronic structure analysis of the quasi-one-dimensional oxide $\text{Sr}_6\text{Co}_5\text{O}_{15}$ within the LDA+U method. <i>Journal of Applied Physics</i> , 2011, 109, 07E114.	2.5	3
53	Electronic structure of higher-order Ruddlesden-Popper nickelates. <i>Physical Review B</i> , 2022, 105, .	3.2	3
54	Charge ordering at the interface in $(\text{LaMnO}_3)_2(\text{SrMnO}_3)_n$ superlattices as the origin of their insulating state. <i>Applied Physics Letters</i> , 2014, 104, 081602.	3.3	2

#	ARTICLE	IF	CITATIONS
55	Effects of applied pressure in ZnV2 O4 and evidences for a dimerized structure. Journal of Applied Physics, 2011, 109, 07E158.	2.5	0
56	Reaching the Excitonic Limit in 2D Janus Monolayers by In Situ Deterministic Growth (Adv. Mater.) Tj ETQq0 0 0 rgBT, /Overlock 10 Tf 50	21.0	0