Antia S Botana

List of Publications by Year
in descending order

56	1,757	257450 24	276875 41
papers	citations	h-index	g-index

56	56	56	1790
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reaching the Excitonic Limit in 2D Janus Monolayers by In Situ Deterministic Growth. Advanced Materials, 2022, 34, e2106222.	21.0	39
2	Superconductivity in a quintuple-layer square-planar nickelate. Nature Materials, 2022, 21, 160-164.	27.5	117
3	Low Valence Nickelates: Launching the Nickel Age of Superconductivity. Frontiers in Physics, 2022, 9, .	2.1	13
4	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
5	Correlated electronic structure of a quintuple-layer nickelate. Physical Review B, 2022, 105, .	3.2	10
6	Evidence for a single-layer van der Waals multiferroic. Nature, 2022, 602, 601-605.	27.8	104
7	Electronic structure of higher-order Ruddlesden-Popper nickelates. Physical Review B, 2022, 105, .	3.2	3
8	Visualizing the out-of-plane electronic dispersions in an intercalated transition metal dichalcogenide. Physical Review B, 2022, 105, .	3.2	9
9	Synthesis and electronic properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nd</mml:mi><mml:mrow><mml:mi>n</mml:mi><mml:mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>3</mml:mn><mml:mi>n</mml:mi><mml:mo>+</mml:mo><mml:mn>1</mml:mn> Ruddlesden-Popper nickelate thin films. Physical Review Materials, 2022, 6, .	2.4	7
10	Strong Superexchange in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>d</mml:mi></mml:mrow><mml:mrow><mml:mn>9</mml:mn><mml:mn><mml: Nickelate Revealed by Resonant Inelastic X-Ray Scattering. Physical Review Letters, 2021, 126, 087001.	7.8	51
11	Nickelate Superconductors: An Ongoing Dialog between Theory and Experiments. Journal of Experimental and Theoretical Physics, 2021, 132, 618-627.	0.9	41
12	Synthesis, engineering, and theory of 2D van der Waals magnets. Applied Physics Reviews, 2021, 8, .	11.3	41
13	Electronic structure and magnetic properties of higher-order layered nickelates: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mi>n</mml:mi>		

#	Article	IF	Citations
19	Electronic structure and magnetism in infinite-layer nickelates <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>R</mml:mi><mml:msub><mml:mi>NiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> (<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 737 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow>	3.2	43
20	Many-Body Electronic Structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>NdNiO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CaCuO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review X, 2020, 10, .	8.9	89
21	Effects of Sr doping on the electronic and spin-state properties of infinite-layer nickelates: Nature of holes. Physical Review B, 2020, 102, .	3.2	26
22	Comparative many-body study of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Pr</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>NdNiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2020, 102, .	3.2	36
23	Structural, electronic, and magnetic properties of vanadium-based Janus dichalcogenide monolayers: A first-principles study. Physical Review Materials, 2020, 4, .	2.4	23
24	KCu₇P₃: A Two-Dimensional Noncentrosymmetric Metallic Pnictide. Inorganic Chemistry, 2019, 58, 10201-10208.	4.0	5
25	Spin Stripe Order in a Square Planar Trilayer Nickelate. Physical Review Letters, 2019, 122, 247201.	7.8	48
26	Electronic structure and magnetism of transition metal dihalides: Bulk to monolayer. Physical Review Materials, 2019, 3, .	2.4	118
27	Steplike metamagnetic transitions in a honeycomb lattice antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Tb</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review Materials, 2019, 3, .	2.4	9
28	Spin quenching assisted by a strongly anisotropic compression behavior in MnP. New Journal of Physics, 2018, 20, 023012.	2.9	5
29	Ag₂Se to KAg₃Se₂: Suppressing Orderâ€“Disorder Transitions via Reduced Dimensionality. Journal of the American Chemical Society, 2018, 140, 9193-9202.	13.7	14
30	Averievite: A copper oxide kagome antiferromagnet. Physical Review B, 2018, 98, .	3.2	20
31	Large anomalous Hall effect in the chiral-lattice antiferromagnet CoNb3S6. Nature Communications, 2018, 9, 3280.	12.8	102
32	Anisotropic angular magnetoresistance and Fermi surface topology of the candidate novel topological metal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Pd</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review Materials, 2018, 2, .	2.4	12
33	Layered palladates and their relation to nickelates and cuprates. Physical Review Materials, 2018, 2, .	2.4	13
34	All- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>3</mml:mn><mml:mi>d</mml:mi></mml:math> Electron-Hole Bilayers in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>CrN</mml:mi><mml:mo>/</mml:mo><mml:mi>MgO</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>111</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 122 Td (stretchy="false">)	3.8	14
35	Copper Vacancies and Heavy Holes in the Two-Dimensional Semiconductor KCu_{3â€“x}Se₂. Chemistry of Materials, 2017, 29, 6114-6121.	6.7	10
36	Large orbital polarization in a metallic square-planar nickelate. Nature Physics, 2017, 13, 864-869.	16.7	135

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37	Origin of the extremely large magnetoresistance in the semimetal YSb. Physical Review B, 2017, 96, .	3.2	49
38	Separation of electron and hole dynamics in the semimetal LaSb. Physical Review B, 2017, 96, .	3.2	37
39	Electronic structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CuTeO</mml:mi><mml:mn>4</mml:mn></mml:msub> and its relationship to cuprates. Physical Review B, 2017, 95, .	3.2	4
40	Electron doped layered nickelates: Spanning the phase diagram of the cuprates. Physical Review Materials, 2017, 1, .	2.4	37
41	Charge ordering in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msup><mml:mrow><mml:mi>Ni</mml:mi></mml:mrow><mml:mr xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mn>4</mml:mn></mml:mr Physical Review B, 2016, 94, .	3.2	40
42	Nitride multilayers as a platform for parallel two-dimensional electron-hole gases: MgO/ScN(111). Physical Review B, 2016, 93, .	3.2	6
43	Magnetotransport of single crystalline YSb. Journal of Physics Condensed Matter, 2016, 28, 235601.	1.8	36
44	Disturbing the dimers: Electron and hole doping in the intermetallic insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>FeGa</mml:mi><mml:mn>3</mml:mn><mml:non /><mml:mprescripts /><mml:none /><mml:none /></mml:mmultiscripts></mml:math>. Physical Review B, 2015, 92, .	3.2	13
45	Dielectric response of electron-doped ionic superconductorLixZrNCl. Physical Review B, 2014, 90, .	3.2	6
46	Charge ordering at the interface in (LaMnO₃)₂_n/(SrMnO₃)_n superlattices as the origin of their insulating state. Applied Physics Letters, 2014, 104, 081602.	3.3	2
47	Conducting states caused by a surface electric dipole in CrN(001) very thin films. Physical Review B, 2013, 87, .	3.2	12
48	Strain effects to optimize thermoelectric properties of hole-doped La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>NiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>4</mml:mn><mml:mo>+</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub></mml:math>viaab initiocalculations. Physical Review B, 2013, 87, .	3.2	25
49	Electronic structure of CrN: A comparison between different exchange correlation potentials. Physical Review B, 2012, 85, .	3.2	42
50	Enhanced thermoelectric response of hole-doped La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>NiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>4</mml:mn><mml:mo>+</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub></mml:math>fromab initiocalculations. Physical Review B, 2012, 86, .	3.2	13
51	Electronic structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>(0001): Evidence of a wurtzite to rocksalt transformation. Physical Review B, 2012, 86, .	3.2	15
52	Effects of applied pressure in ZnV2 O4 and evidences for a dimerized structure. Journal of Applied Physics, 2011, 109, 07E158.	2.5	0
53	Electronic structure analysis of the quasi-one-dimensional oxide Sr6Co5O15 within the LDA+U method. Journal of Applied Physics, 2011, 109, 07E114.	2.5	3
54	Electronic structure of V<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>7</mml:mn></mml:msub></mml:math>: Charge ordering, metal-insulator transition, and magnetism. Physical Review B, 2011, 84, .	3.2	17

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55	Quasi-one-dimensional behavior in charge-ordered structurally quasi-one-dimensional Sr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>6</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Co<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>5</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>	3.2	49
56	Fermiology and magnetism in weak itinerant ferromagnet CoS₂: anab initiostudy. Journal of Physics Condensed Matter, 2010, 22, 505602.	1.8	13