

Diola Bagayoko

List of Publications by Year in descending order

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34
papers

432
citations

933447

10
h-index

713466

21
g-index

34
all docs

34
docs citations

34
times ranked

617
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding density functional theory (DFT) and completing it in practice. AIP Advances, 2014, 4, .	1.3	115
2	First principle electronic, structural, elastic, and optical properties of strontium titanate. AIP Advances, 2012, 2, .	1.3	43
3	<i>Ab-initio</i> Electronic and Structural Properties of Rutile Titanium Dioxide. Japanese Journal of Applied Physics, 2011, 50, 101103.	1.5	40
4	Microwave absorption properties of multi-walled carbon nanotube (outer diameter 20–30nm)–epoxy composites from 1 to 26.5GHz. Diamond and Related Materials, 2015, 52, 66-71.	3.9	39
5	<i>Ab-initio</i> Electronic and Structural Properties of Rutile Titanium Dioxide. Japanese Journal of Applied Physics, 2011, 50, 101103.	1.5	32
6	Calculated electronic, transport, and related properties of zinc blende boron arsenide (zb-BAs). Journal of Applied Physics, 2016, 120, .	2.5	27
7	First-principles studies of electronic, transport and bulk properties of pyrite FeS ₂ . AIP Advances, 2018, 8, .	1.3	20
8	<i>Ab-initio</i> computations of electronic and transport properties of wurtzite aluminum nitride (w-AlN). Materials Chemistry and Physics, 2015, 157, 80-86.	4.0	15
9	Catalytic reaction on FeN ₄ /C site of nitrogen functionalized carbon nanotubes as cathode catalyst for hydrogen fuel cells. Catalysis Communications, 2015, 62, 79-82.	3.3	13
10	Electronic, structural, and elastic properties of metal nitrides XN (X = Sc, Y): A first principle study. AIP Advances, 2012, 2, 032163.	1.3	11
11	Accurate Electronic, Transport, and Bulk Properties of Zinc Blende Gallium Arsenide (Zb-GaAs). Journal of Modern Physics, 2017, 08, 531-546.	0.6	10
12	Predictions of Electronic, Transport, and Structural Properties of Magnesium Sulfide (MgS) in the Rocksalt Structure. Journal of Modern Physics, 2018, 09, 1773-1784.	0.6	10
13	Reliable density functional calculations for the electronic structure of thermoelectric material ZnSb. AIP Advances, 2018, 8, .	1.3	9
14	Understanding the Relativistic Generalization of Density Functional Theory (DFT) and Completing It in Practice. Journal of Modern Physics, 2016, 07, 911-919.	0.6	9
15	First Principle Investigation of Electronic, Transport, and Bulk Properties of Zinc-Blende Magnesium Sulfide. Electronics (Switzerland), 2020, 9, 1791.	3.1	7
16	<i>Ab initio</i> prediction of electronic, transport and bulk properties of Li ₂ S. International Journal of Modern Physics B, 2015, 29, 1542006.	2.0	5
17	Energy Structure of Two-Dimensional Graphene-Semiconductor Quantum Dot. World Journal of Condensed Matter Physics, 2013, 03, 144-151.	0.2	5
18	Accurate Electronic, Transport, and Related Properties of Wurtzite Beryllium Oxide (w-BeO). Journal of Modern Physics, 2017, 08, 1938-1949.	0.6	5

#	ARTICLE	IF	CITATIONS
19	Doped C60 Study from First Principles Simulation. Journal of Superconductivity and Novel Magnetism, 2010, 23, 877-880.	1.8	4
20	Ab-Initio Computations of Electronic, Transport, and Structural Properties of zinc-blende Beryllium Selenide (zb-BESe). Journal of Modern Physics, 2017, 08, 552-566.	0.6	3
21	First Principle Calculation of Accurate Electronic and Related Properties of Zinc Blende Indium Arsenide (zb-InAs). Materials, 2022, 15, 3690.	2.9	3
22	Ground State Properties of the Wide Band Gap Semiconductor Beryllium Sulfide (BeS). Materials, 2021, 14, 6128.	2.9	2
23	First principles simulation on the K0.8Fe2Se2 high-temperature structural superconductor. Physica C: Superconductivity and Its Applications, 2013, 493, 55-57.	1.2	1
24	High Microwave Absorption of Multi-Walled Carbon Nanotubes (Outer Diameter 10 – 20 nm)-Epoxy Composites in Rf-Band. Physical Science International Journal, 2015, 8, 1-10.	0.3	1
25	Ab-Initio Computations of Electronic, Transport, and Related Properties of Chromium Disilicide (CrSi ₂). Journal of Modern Physics, 2018, 09, 2457-2472.	0.6	1
26	Ab-Initio Self-Consistent Density Functional Theory Description of Rock-Salt Magnesium Selenide (MgSe). Materials Sciences and Applications, 2020, 11, 401-414.	0.4	1
27	Ab Initio Calculation of Accurate Electronic and Transport Properties of Zinc Blende Gallium Antimonide (zb-GaSb). Journal of Modern Physics, 2022, 13, 414-431.	0.6	1
28	ELECTRONIC STRUCTURE OF K _{0.8} Fe ₂ Se ₂ FROM DENSITY FUNCTIONAL THEORY GW METHOD SIMULATION. International Journal of Modern Physics B, 2013, 27, 1362017.	2.0	0
29	Undergraduate Research at the Timbuktu Academy and LS-LAMP at Southern University and A&M College in Baton Rouge (SUBR). Diversity in Higher Education, 2015, , 87-114.	0.1	0
30	Parallel Molecular Dynamics Simulations and Immersive Visualization of Thermal Barrier Coating Components: Thermally Growing Oxide and Yttria Stabilized Zirconia. , 2013, , .		0
31	Higher Education Systems and Institutions, Mali. , 2018, , 1-7.		0
32	The Seismic Transformation in Higher Education in the 21st Century: The Case for Data Analytics and Student Success. International Journal of Innovative Business Strategies, 2018, 4, 199-202.	0.1	0
33	Accurate, First-Principle Study of Electronic and Related Properties of the Ground State of Li ₂ Se. Journal of Modern Physics, 2019, 10, 909-921.	0.6	0
34	Higher Education Systems and Institutions, Mali. , 2020, , 1274-1280.		0