

Lidia C Gomes

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,873
citations

516710

16
h-index

713466

21
g-index

22
all docs

22
docs citations

22
times ranked

2975
citing authors

#	ARTICLE	IF	CITATIONS
1	New Kagome prototype materials: discovery of KV_3 , and CsV_3 . <i>Physical Review Materials</i> , 2019, 3, .	2.4	398
2	Phosphorene analogues: Isoelectronic two-dimensional group-IV monochalcogenides with orthorhombic structure. <i>Physical Review B</i> , 2015, 92, .	3.2	391
3	Enhanced piezoelectricity and modified dielectric screening of two-dimensional group-IV monochalcogenides. <i>Physical Review B</i> , 2015, 92, .	3.2	179
4	Electric-field-tuned topological phase transition in ultrathin Na_3Bi . <i>Nature</i> , 2018, 564, 390-394.	27.8	155
5	Surface Functionalization of Black Phosphorus via Potassium toward High-Performance Complementary Devices. <i>Nano Letters</i> , 2017, 17, 4122-4129.	9.1	117
6	Valley physics in tin (II) sulfide. <i>Physical Review B</i> , 2016, 93, .	3.2	101
7	Lattice Relaxation at the Interface of Two-Dimensional Crystals: Graphene and Hexagonal Boron-Nitride. <i>Nano Letters</i> , 2014, 14, 5133-5139.	9.1	89
8	Vacancies and oxidation of two-dimensional group-IV monochalcogenides. <i>Physical Review B</i> , 2016, 94, .	3.2	77
9	Strongly bound Mott-Wannier excitons in GeS and GeSe monolayers. <i>Physical Review B</i> , 2016, 94, .	3.2	76
10	Accessing valley degree of freedom in bulk Tin(II) sulfide at room temperature. <i>Nature Communications</i> , 2018, 9, 1455.	12.8	56
11	Dual phases of crystalline and electronic structures in the nanocrystalline perovskite $CsPbBr_3$. <i>NPG Asia Materials</i> , 2019, 11, .	7.9	41
12	Stability of Edges and Extended Defects on Boron Nitride and Graphene Monolayers: The Role of Chemical Environment. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11770-11779.	3.1	36
13	Second-Harmonic Spectroscopy for Defects Engineering Monitoring in Transition Metal Dichalcogenides. <i>Advanced Optical Materials</i> , 2018, 6, 1701327.	7.3	29
14	Electronic and optical properties of low-dimensional group-IV monochalcogenides. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	29
15	Ultralow Thermal Conductivity in Diamond-Like Semiconductors: Selective Scattering of Phonons from Antisite Defects. <i>Chemistry of Materials</i> , 2018, 30, 3395-3409.	6.7	28
16	Carrier density control in $Cu_2HgGeTe_4$ and discovery of Hg_2GeTe_4 phase boundary mapping. <i>Journal of Materials Chemistry A</i> , 2019, 7, 621-631.	10.3	27
17	Native Defect Engineering in $CuInTe_2$. <i>Chemistry of Materials</i> , 2021, 33, 359-369.	6.7	18
18	Spatial charge inhomogeneity and defect states in topological Dirac semimetal thin films of Na_3Bi . <i>Science Advances</i> , 2017, 3, eaao6661.	10.3	15

#	ARTICLE	IF	CITATIONS
19	Controlling thermoelectric transport via native defects in the diamond-like semiconductors Cu ₂ HgGeTe ₄ and Hg ₂ GeTe ₄ . Journal of Materials Chemistry A, 0, , .	10.3	4
20	Understanding Cu incorporation in the $\text{Zn}_{1-x}\text{Cu}_x\text{Sb}$ structure using resonant x-ray diffraction. Physical Review Materials, 2021, 5, .	2.4	2
21	Anomalous electronic properties in layered, disordered ZnVSb. Physical Review Materials, 2021, 5, .	2.4	2
22	Structural defects in compounds $\text{Zn}_x\text{X}_{1-x}\text{Sb}$: Origin of disorder and its relationship with electronic pro. Physical Review Materials, 2022, 6, .	2.4	2