

# Lalla Btissam Drissi

## List of Publications by Year in descending order

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51  
papers

722  
citations

623188

14  
h-index

676716

22  
g-index

51  
all docs

51  
docs citations

51  
times ranked

417  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly efficient ACdTS kesterite solar cell based on a new photovoltaic material. Journal of Physics and Chemistry of Solids, 2022, 161, 110458.	1.9	3
2	Evidence of topological surface states in dysprosium monpnictides compounds. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 283, 115774.	1.7	8
3	Higher-order topological matter and fractional chiral states. European Physical Journal Plus, 2022, 137, .	1.2	4
4	Domain walls in topological tri-hinge matter. European Physical Journal Plus, 2021, 136, 1.	1.2	7
5	Electron-phonon contribution in aluminene: Superconductive and transport properties. Superlattices and Microstructures, 2021, 151, 106822.	1.4	8
6	Tailoring acoustoelastic, piezoelectric and thermal properties of Janus GeC sheets. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 128, 114625.	1.3	7
7	Mechanical response, thermal conductivity and phononic properties of group III-V 2D hexagonal compounds. Materials Chemistry and Physics, 2021, 267, 124685.	2.0	6
8	Thermoelectric performance in two-dimensional CX (X=Si, Ge, Sn) compounds. Journal of Physics and Chemistry of Solids, 2021, 155, 110105.	1.9	12
9	A new approach to the modeling and simulation of multi-junction solar cells. Optik, 2020, 200, 163452.	1.4	14
10	Molecular dynamics study of pristine and defective hexagonal BN, SiC and SiGe monolayers. Materials Chemistry and Physics, 2020, 242, 122474.	2.0	16
11	Graphene and silicene quantum dots for nanomedical diagnostics. RSC Advances, 2020, 10, 801-811.	1.7	16
12	A signature index for third order topological insulators. Journal of Physics Condensed Matter, 2020, 32, 365704.	0.7	10
13	New highly efficient 2D SiC UV-absorbing material with plasmonic light trapping. Journal of Physics Condensed Matter, 2020, 32, 025701.	0.7	20
14	Engineering silicon-carbide quantum dots for third generation photovoltaic cells. Optics Express, 2020, 28, 36656.	1.7	5
15	Size engineering optoelectronic features of C, Si and CSi hybrid diamond-shaped quantum dots. RSC Advances, 2019, 9, 28609-28617.	1.7	9
16	Non linear and thermoelastic behaviors of group-IV hybrid 2D nanosheets. Superlattices and Microstructures, 2019, 132, 106172.	1.4	10
17	Electron-phonon dynamics in 2D carbon based-hybrids XC (X=Si, Ge, Sn). Journal of Physics Condensed Matter, 2019, 31, 135702.	0.7	17
18	(V, Ti) co-doping effect on electronic and magnetic properties of zb-AlAs. International Journal of Modern Physics B, 2019, 33, 1950326.	1.0	10

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19	Oxidation effect on elastic behavior of phosphorene. Journal of Physics and Chemistry of Solids, 2019, 130, 13-18.	1.9	5
20	Strain engineering of electronic, elastic, and piezoelectric responses in oxygen-decorated phosphorene. Superlattices and Microstructures, 2019, 126, 186-192.	1.4	5
21	Optoelectronic properties in 2D GeC and SiC hybrids: DFT and many body effect calculations. Materials Research Express, 2018, 5, 015061.	0.8	18
22	Surface effects and discontinuity behavior in nano-systems composed of Prussian blue analogues. Physica A: Statistical Mechanics and Its Applications, 2018, 496, 663-675.	1.2	8
23	Tuning Optoelectronic Properties of the Graphene-Based Quantum Dots C <sub>16</sub> Si <sub>10</sub> H <sub>10</sub> Family. Journal of Physical Chemistry A, 2018, 122, 5016-5025.	1.1	11
24	Stone-Wales defected molecular-based AFellFeIII(C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> nanoribbons: Thermal and magnetic properties. Journal of Magnetism and Magnetic Materials, 2018, 449, 328-336.	1.0	13
25	Phosphorene under strain:electronic, mechanical and piezoelectric responses. Journal of Physics and Chemistry of Solids, 2018, 112, 137-142.	1.9	35
26	Excitonic and fluorination effects on optoelectronic response of GeC hybrid. Computational Condensed Matter, 2018, 14, 49-54.	0.9	8
27	Strain-engineering of Janus SiC monolayer functionalized with H and F atoms. Journal of Applied Physics, 2018, 123, .	1.1	16
28	Tunable optical and excitonic properties of phosphorene via oxidation. Journal of Physics Condensed Matter, 2018, 30, 255703.	0.7	14
29	First principles study of electronic and optical properties of $Ag_2CdSnX_4$ for photovoltaic applications. Computational Materials Science, 2018, 152, 291-299.	1.4	14
30	Electron-phonon investigation in stanene. Computational Materials Science, 2018, 155, 63-68.	1.4	8
31	A DFT study of electro-optical properties of kesterite $Ag_2CdSnX_4$ for photovoltaic applications. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 103, 171-179.	1.3	8
32	Oxygen vacancy effect on dielectric and hysteretic properties of zigzag ferroelectric iron dioxide nanoribbon. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 91, 113-118.	1.3	6
33	Mechanical response of SiC sheet under strain. Materials Chemistry and Physics, 2017, 201, 199-206.	2.0	10
34	Stability, magnetic and electronic properties of SiC sheet doped with B, N, Al and P. Bulletin of Materials Science, 2017, 40, 1081-1086.	0.8	11
35	Halogenation of SiC for band-gap engineering and excitonic functionalization. Journal of Physics Condensed Matter, 2017, 29, 455001.	0.7	8
36	Electronic and magnetic properties of TiO <sub>2</sub> (co)-doped with (V, Mn). Materials Research Express, 2017, 4, 126513.	0.8	18

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37	Monte Carlo study of thermodynamic and hysteresis properties of mixed spin-(1,1/2) ferrimagnetic nanowire with alternate layers. <i>Materials Research Express</i> , 2017, 4, 116108.	0.8	10
38	Fluorination-control of electronic and magnetic properties in GeC-hybrid. <i>Chemical Physics Letters</i> , 2016, 659, 148-153.	1.2	16
39	Effect of hydrogen coverage on elastic response and acoustic wave propagation of SiC sheet. <i>Mechanics of Materials</i> , 2016, 96, 76-82.	1.7	3
40	Half-oxidized phosphorene: band gap and elastic properties modulation. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 145501.	0.7	9
41	Magnetic phase transitions in pure zigzag graphone nanoribbons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 753-760.	0.9	14
42	Excitonic effects in GeC hybrid: Many-body Green's function calculations. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 74, 377-381.	1.3	47
43	Elastic properties and sound velocities of silicene/graphene hybrids. <i>Mechanics of Materials</i> , 2015, 89, 151-158.	1.7	15
44	Many body effects study of electronic & optical properties of silicene-graphene hybrid. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 68, 38-41.	1.3	46
45	Monte Carlo study of magnetic behavior of core-shell nanoribbon. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 374, 639-646.	1.0	39
46	Edge effect on magnetic phases of doped zigzag graphone nanoribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 374, 394-401.	1.0	22
47	DFT investigations of silicene/graphene conformers. <i>Computational Materials Science</i> , 2015, 96, 165-170.	1.4	13
48	Fluorination Effects on Electronic and Magnetic Properties of Silicene/Graphene Hybrids. <i>Journal of the Physical Society of Japan</i> , 2013, 82, 104711.	0.7	13
49	DFT investigations of the hydrogenation effect on silicene/graphene hybrids. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 485502.	0.7	42
50	Monte Carlo simulation of magnetic phase transitions in Mn-doped ZnO. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 3001-3006.	1.0	29
51	On N = 1 gauge models from geometric engineering in M-theory. <i>Classical and Quantum Gravity</i> , 2003, 20, 4973-4981.	1.5	6