Appala N Gandi

List of Publications by Year
in descending order

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24 papers	2,615 citations	758635 12 h-index	642321 23 g-index
25 all docs	25 docs citations	25 times ranked	4496 citing authors

#	Article	IF	Citations
1	Low lattice thermal conductivity and its role in the remarkable thermoelectric performance of newly predicted SiS2 and SiSe2 monolayers. Computational Materials Science, 2022, 201, 110931.	1.4	12
2	Strain and electric field-modulated indirect-to-direct band transition of monolayer GaInS2. Journal of Computational Electronics, 2022, 21, 227-234.	1.3	3
3	Raman spectra characterization of boron carbide using first-principles calculations. Physica B: Condensed Matter, 2022, 633, 413738.	1.3	8
4	Martensitic transformations of Î²-phase in zirconium. Journal of Applied Physics, 2021, 129, .	1.1	3
5	Reconstructive Phase Transformations in Bodyâ€Centered Cubic Titanium. Physica Status Solidi (B): Basic Research, 2020, 257, 2000193.	0.7	4
6	Voltage Induced Molecular Motors Constitute the Smallest Selfâ€Assembled Molecular Electronic Counter. Advanced Materials Interfaces, 2020, 7, 2000383.	1.9	0
7	Oxygen Doping Enhanced Lithiation in MgCl₂ for Battery Applications. Physica Status Solidi (B): Basic Research, 2019, 256, 1900166.	0.7	3
8	A 0D Leadâ€Free Hybrid Crystal with Ultralow Thermal Conductivity. Advanced Functional Materials, 2019, 29, 1809166.	7.8	32
9	Bâ€Dopingâ€Enhanced Stability of Phosphorene/Graphene Heterostructures. Advanced Theory and Simulations, 2019, 2, 1800176.	1.3	9
10	Phosphorene as cathode for metal-ion batteries: Importance of F decoration. Materials Today Energy, 2018, 10, 141-145.	2.5	5
11	Potential of B/Alâ€Doped Silicene Electrodes in Na/Kâ€Ion Batteries. Advanced Theory and Simulations, 2018, 1, 1800017.	1.3	12
12	Amorphous NiFe-OH/NiFeP Electrocatalyst Fabricated at Low Temperature for Water Oxidation Applications. ACS Energy Letters, 2017, 2, 1035-1042.	8.8	505
13	Low temperature synthesis of ternary metal phosphides using plasma for asymmetric supercapacitors. Nano Energy, 2017, 35, 331-340.	8.2	324
14	Thermoelectric Properties of the XCoSb (X: Ti,Zr,Hf) Halfâ€Heusler alloys. Physica Status Solidi (B): Basic Research, 2017, 254, 1700419.	0.7	14
15	Thermal response in van der Waals heterostructures. Journal of Physics Condensed Matter, 2017, 29, 035504.	0.7	4
16	3D continuum phonon model for group-IV 2D materials. Beilstein Journal of Nanotechnology, 2017, 8, 1345-1356.	1.5	6
17	Electron dominated thermoelectric response in MNiSn (M: Ti, Zr, Hf) half-Heusler alloys. Physical Chemistry Chemical Physics, 2016, 18, 14017-14022.	1.3	25
18	Plasma-Assisted Synthesis of NiCoP for Efficient Overall Water Splitting. Nano Letters, 2016, 16, 7718-7725.	4.5	1,079

#	Article	IF	Citations
19	Cenosphere formation from heavy fuel oil: a numerical analysis accounting for the balance between porous shells and internal pressure. Combustion Theory and Modelling, 2016, 20, 154-172.	1.0	10
20	Thermoelectric Performance of the MXenes M₂CO₂ (M = Ti, Zr, or Hf). Chemistry of Materials, 2016, 28, 1647-1652.	3.2	132
21	Thermal conductivity of bulk and monolayer MoS ₂. Europhysics Letters, 2016, 113, 36002.	0.7	117
22	Is NiCo₂S₄ Really a Semiconductor?. Chemistry of Materials, 2015, 27, 6482-6485.	3.2	203
23	Universal binding energy relation for cleaved and structurally relaxed surfaces. Journal of Physics Condensed Matter, 2014, 26, 055006.	0.7	13
24	WS₂ As an Excellent High-Temperature Thermoelectric Material. Chemistry of Materials, 2014, 26, 6628-6637.	3.2	92